

SMIRNOV, N.I.; DORONENKO, F.G.

Operation of 6m³ excavators in open pit mines. Trudy Inst.
gor. dela AN Kazakh. SSR 7:76-82 '60. (MIRA 14:6)
(Strip mining) (Excavating machinery)

CHAYKO, N.P.; DORONENKO, F.G.

Relation between the productive capacity of an open-pit mine
and the type of equipment used. Trudy Inst. gor. dela AN Kazakh.
SSSR 10:90-98 '63. (MIRA 16:8)

(Mine management)

ALEKSEYEV, O.I.; MUSTAFINA, A.M.; SADYKOV, G.Kh.; DORONENKO, F.G.

Use of cheap explosives ("igdant") in some large pits of
Kazakhstan. Trudy Inst. gor. dola AN Kazakh. SSSR 10:195-
200 '63. (MIRA 16:8)

(Kazakhstan--Explosives)

DORONENKO, F.G.; CHAYKO, N.P.

Effect of the rate of mining on the duration of strip mine construction. Trudy Inst.gor.dela AN Kazakh.SSR 14:98-107 '64.

(MIRA 18:1)

CHAYKO, N.P.; DORONENKO, F.G.

Analytic solution of certain problems in determining the
time length of an open-pit mine existence. Trudy Inst.
gor. dela AN Kazakh. SSR 18:78-86 '65. (MIRA 18:12)

DCRONENKOV, I.M., kand. tekhn. nauk; DUSHINA, E.M., inzh.; FISKINA, R.Ya.,
inzh.

Anticorrosion polymer solution on the basis of furyl resins and
mineral fillers. Stroi. mat. 11 no.8:23 Ag '65. (MIRA 18:9)

DORONENKO, I.M.; KUTSENOK, B.I.

Mercury-impervious coverings for floors, walls and ceilings subject to
alkaline attack. Khim.prom. no.2:114-116 Mr '54. (MLRA 7:6)

1. TsnILKhIMSTROY. (Chemical plants) (Mercury)

ANAN'YEV, Boris Gerasimovich; MYASISHCHEV, V.N. professor, redaktor; ~~DORO-~~
HRENKO, N.I., redaktor; GATAULLINA, A.S., tekhnicheskij redaktor.

[Spatial discrimination] Prostranstvennoe razlichenie. Leningrad,
Izd-vo Leningradskogo universiteta, 1955. 186 p. (MLRA 9:5)
(Space perception)

DORONENKO, Ye.P.

Features of the operation of truck transportation in open pits
situated on hillsides. Trudy Inst.gor.dela UFAN SSSR no.4:55-61 '62.
(Mine haulage) (MIRA 16:5)

VASIL'YEV, M.V.; DORONENKO, Ye.P.; SUBBOTIN, A.N.
~~SECRET~~

Basic laws governing the movement of heavy-duty dump trucks down
open pits situated on hillsides. Trudy Inst.gor.dela UFAN SSSR no.
4:141-148 '62.

(Mine haulage)

(MIRA 16:5)

VASIL'YEV, M.V.; V'YUKHINA, A.S.; DORONENKO, Ye.P.; ZEBZIYEV, K.V.,
kand. tekhn. nauk; LATS, V.M.; PARFENOV, G.V.; POPOV,
V.Ye.; TROITSKIY, D.P.; FADDEYEV, B.V.; TSVETAYEVA, Z.N.;
ZUBRILOV, L.Ye., kand. tekhn. nauk, otv. red.; MAKAROVA,
N.U., red.; PAL'MIN, M.Z., tekhn. red.

[Evaluation and the prospects of the development of the
mineral resources for ferrous metallurgy in Chelyabinsk area]
Otsenka i perspektivy razvitiia syr'evoi bazy chernoi metal-
lurgii Cheliabinskogo raiona. Sverdlovsk, AN SSSR, 1964. 67 p.
(MIRA 17:4)

VASIL'YEV, M.V., doktor tekhn.nauk; DORONENKO, ie.P., inzh.

Methods of selecting an efficient grade for automobile roads
in the use of truck transportation in strip mines. Izv.vys.
ucheb.zav.:gor.zhur. 7 no. 1:125-131 '64. (MIRA 17:5)

1. Institut gornogo dela Gosudarstvennogo Komiteta po chernoy
i tsvetnoy metallurgii pri Gosplane SSSR. Rekomendovana kafedroy
otkrytykh rabot Sverdlovskogo gornogo instituta.

ALEKSEYEV, S.N.; ANTIPIN, V.A.; ARTAMONOV, V.S.; BALALAYEV, G.A.,
inzh.; VOLODIN, V.Ye.; GOL'DENBERG, N.L.; GORDINA, B.S.;
GOFEN, D.A.; GRISHIN, M.Ye.; DERESHKEVICH, Yu.V.;
DORONENKOV, I.M.; KLINOV, I.Ya., doktor tekhn. nauk, prof.;
LEYRIKH, V.E.; LUTONIN, N.V.; MOLOKANOV, A.V., dots.;
NOGIN, A.Ya.; PAKHOMOV, N.M.; PROTOSAVITSKAYA, Ye.A.;
ROMOV, I.V.; CHAPLITSKIY, L.A.; TSEYTLIN, A.G.; STRAV'YE, P.K.;
MOSHCHANSKIY, N.A., doktor tekhn. nauk, prof., red.;
PEREVALYUK, M.V., red. izd-va; TEMKINA, Ye.L., tekhn. red.

[Corrosion protection in the construction of industrial
buildings] Zashchita ot korrozii v promyshlennom stroitel'-
stve. Moskva, Gosstroizdat, 1963. 406 p. (MIRA 16:12)

(Corrosion and anticorrosives)
(Industrial buildings)

DORONENKOVA, A. M. (Vladimir, ul. Elektrozavodskaya, 4a, kv. 8)

Chorioepithelioma of the ovary (one observation). Vop. onk. 8
no.3:103-104 '62. (MIRA 15:4)

1. Iz ginekologicheskogo otdeleniya oblastnoy bol'nitsy g.
Vladimira (glav. vrach - B. M. Trukhnov, konsul'tant - kand.
med. nauk Ya. M. Anan'yev)

(OVARIES--CANCER)

BURTSEV, A.D.; SAGUSHYY, V.V.; LUPANOV, B.P.; BOGACHEV, A.F.; SMIRNOV, G.P.;
ANDRONOVA, Ye.I.; GIZMAYTER, V.K.; PINES, A.V.; SHEVCHUK, R.S.;
NOSOV, Ye.S.; DOROSHENKO, S.P.; KUGEL', D.B.; ZOLOTNIKOV, N.M.;
SHPILENKO, A.M.; VASILYUK, A.P.; SVIRIDOV, I.A.

Using exothermic mixtures for heating the heads of steel castings.
From: energ. 15 no.6:14 Je '60. (MIRA 13:7)
(Founding)

VASIL'YEV, M.V.; DORCENKO, Ye.P.

Construction and use of strip mine motor roads. Trudy Gor.-geol.
inst. UFAN SSSR no.55:51-60 '60. (MIRA 15:6)
(Mine haulage)

VASIL'YEV, M.V., doktor tekhn. nauk; DORONENKO, Ye. P., inzh.

Safe driving of dump trucks on steep descents in open pits.
Besop.truda v prom. 7 no.4:7-8 Ap '63. (MIRA 16:4)

1. Institut gornogo dela, Sverdlovsk.
(Mine haulage—Safety measures)

PETROV, G., doktor tekhnicheskikh nauk; PAVZNER, L., kandidat tekhnicheskikh nauk; DOROMENKOV, I., inzhener; YEZERSKIY, A., inzhener.

Facing slabs made of phenolite. Stroimaterialy, izdelaniye konstruktsiy. 2
no.5:33-34 My '56. (MLRA 9:8)

(Floors) (Walls)

DORONENKOV, I.; TREBUKOV, P.; YEZERSKIY, A.

Introducing plastic materials in construction. Stroi. mat. 4
no.1:18-21 Ja '58. (MIRA 11:2)

1. Direktor TSentral'noy nauchno-issledovatel'skoy laboratorii stroy-
materialov khimicheskoy promyshlennosti (for Doronenkov). 2. Glavnyy
inzhener TSentral'noy nauchno-issledovatel'skoy laboratorii stroy-
materialov khimicheskoy promyshlennosti (for Trebukov). 3. Zaveduyushchiy
TSentral'noy nauchno-issledovatel'skoy laboratoriyey stroymaterialov
khimicheskoy promyshlennosti (for Yezerskiy).
(Plastics)

DOROMENKOV, I. M.

GRIGOR' YEV, P.N., [deceased]; DOROMENKOV, I.M.; AVRAMOVA, M.S., redaktor;
SHPAK, Ye.G., ~~tekhnicheskyy redaktor~~

[Protecting construction elements from corrosion] *Zashchita*
stroitel'nykh konstrukttsii ot korrozii. Moskva, Gos.nauchno-
tekhn.izd-vo khim.lit-ry, 1955. 357 p. (MIRA 9:3)
(Corrosion and anticorrosives)

DORONENKOV, I. M.

Summary of book: *Handbook of Building Materials* (Handbook on Building Materials, 2nd Edition, edited by I. M. Doronenkov, Moscow, 1960, 723 p. Krieva slyb izdevums, 4,000 copies printed.)

Ed.: I. M. Doronenkov, Doctor of Technical Sciences, Professor; Ed. of U.S.S.R. Academy of Sciences, Doctor of Technical Sciences, Professor; Ed. of Publishing House of Science (Moscow); Ed. of Publishing House of Science (Moscow); Ed. of Publishing House of Science (Moscow).

FORWORD: This book is intended for machine-building and construction engineers, architects, and other persons interested in the properties of building materials.

CONTENTS: This is the fourth of a 4-volume handbook on building materials. Volume 4 discusses composites suitable for use in machine building, as well as other nonmetallic applications. Textiles, wood, plastic, and other materials and laminates of these materials are reviewed and data on their physical and mechanical properties are listed. No personalities are mentioned. References follow individual chapters.

Handbook on Machine-Building Materials (Cont.)

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Handbook on Machine-Building Materials (Cont.)

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Card 14/15

GOLUBEV, M. Ye.; DORONENKOVA, A. M.

Case of intraarterial blood transfusion. Akush. gin. no. 5:79 Sept-Oct
1953. (CIML 25:4)

1. Of the Gynecological Division (Head -- M. Ye. Golubev), Vladimir
Oblast Hospital.

BASMANOV, V.A.; BOROVIK, I.P.; GUSEV, S.G.; DOKUCHAYEV, H.M.; KUKUNOV,
I.M.; PETROV, S.P.; DORONICHEVA, L.A., nauchnyy red.; FEDOROVA,
T.N., red.izd-va; GILJENSON, P.G., tekhn.red.; RUIAKOVA, H.I.,
tekhn.red.

[Opencast mining and blasting operations] Otkrytye gornye i
vsryvnye raboty. Pod red. I.M.Kukunova. Moskva, Gos.izd-vo
lit-ry po stroit., arkhit. i stroit.materialam, 1959. 335 p.
(MIRA 13:4)

(Strip mining)

(Blasting)

BARON, Lazar' Izrailevich, prof., doktor tekhn.nauk, red.; DOKUCHAYEV, Mikhail Moiseyevich; VASIL'YEV, Georgiy Aleksandrovich; DORONI-CHEVA, Lyudmila Arkad'yevna; SLASTUNOV, V.G., gornyy inzh., retsenzent; ROMADINOV, A.I., gornyy inzh., retsenzent; YAKHONTOV, A.D., otv.red.; SIFYAGINA, Z.A., red.isd-va; KOROVENKOVA, Z.A., tekhn.red.

[Blasting operations in ore mining; a handbook] Vzryvnye raboty v gornorudnoi promyshlennosti; spravochnoe posobie. Pod red. L.I. Barona. Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po gornomu delu, 1960. 181 p. (MIRA 13:3)

(Mining engineering)

DOKUCHAYEV, M.M.; VASIL'YEV, G.A.; DORONICHEVA, L.A.; MEL'NIKOV, N.V.,
akademik, red.; GOMOZOVA, N.A., red. izd-va; KASIMOV, D.Ya.,
tekhn. red.; GOL'BERG, T.M., tekhn. red.

[Handbook on drilling and blasting in construction.] Spravochnik
po burovzryvnym rabotam na stroitel'stve. Moskva, Gosstroizdat,
1962. 392 p. (MIRA 15:12)

(Boring) (Blasting)

L 19631-65 EWG(j)/EWT(n)/EPP(c)/EPT(n)-2/EPR/T/EWP(t)/EWP(b) Pr-4/
Ps-4/Pu-4 ASD(m)-3/AFWL/AEDG(a)/IJP(c) JD/JG

ACCESSION NR: AP4047986

S/0076/64/038/010/2469/2472

AUTHOR: Rodina, A. A.; Doronicheva, N. I.

TITLE: Effect of nitrogen and oxygen impurities on the hydrogen sorption of titanium-molybdenum alloys B

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 10, 1964, 2469-2472

TOPIC TAGS: sorption, hydrogen sorption, gas sorption, titanium alloy, molybdenum containing alloy

ABSTRACT: The effect of nitrogen and oxygen impurities on the hydrogen sorption of titanium-molybdenum (50 wt% Mo) alloys has been investigated. Tests were conducted at room temperature with pre-activated alloy (outgassed in vacuum at 800C) and hydrogen under a pressure of 400--500 mm Hg. After each test the specimens were outgassed. The experiment showed that pure hydrogen can be repeatedly absorbed (up to 300--400 cm³/g) and released by the alloy without decreasing its sorption capacity. However, commercial-grade hydrogen (containing about 0.3% vol% O₂ + N₂) was absorbed in smaller quan-

1/2

L 19631-65

ACCESSION NR: AP4047986

2

titia (about 40 cm³/g), and only after the alloy was preactivated by absorption of pure hydrogen and outgassed. Oxygen, even at a low content (0.1 vol%), reduces considerably the sorption capacity of the alloy. Once the alloy has absorbed hydrogen with an oxygen content of 1%, the sorption capacity of the alloy for pure hydrogen can never be restored completely. Nitrogen also reduces hydrogen sorption capacity, but only at contents higher than 1%. Unlike oxygen, nitrogen has no permanent effect on the pure-hydrogen sorption capacity of the alloy. Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 30Sep63

ENCL: 00

SUB CODE: MM

NO REF SOV: 001

OTHER: 001

Card 2/2

RODINA, A.A.; DONCHICHEVA, N.I.

Unit for the production of hydrogen with a high degree of
purity. Khim prom. 41 no. 12:902-904 D '65
(MIRA 19:1)

ACC NR: AP6005281

SOURCE CODE: UR/0413/66/000/001/0023/0023

INVENTOR: Rodina, A. A., Doronicheva, N. I.; Il'in, N. S.; Khromchenko, Ye. P.

38
B

ORG: none

TITLE: Device for the fine purification of hydrogen. Class 12, No. 177414. [announced by the State Scientific Research and Planning Institute for the Rear-Metal Industry (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut redkometallicheskoj promyshlennosti)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 23

TOPIC TAGS: hydrogen, hydrogen purification, hydrogen filter

ABSTRACT: An Author Certificate has been issued describing a hydrogen-refining purification device containing a filter diaphragm made of metals or alloys possessing selective penetrability for hydrogen. To prevent the penetration of impurities from technical-grade hydrogen into pure hydrogen through leaks in the filter diaphragm and to make possible the rapid detection of such impurities, the filter diaphragm is built into an air-tight housing maintained under vacuum (see Fig. 1).

2

Card 1/2

UDC: 66.067.23 - 661.965

L 24521-66

ACC NR: AP6005281

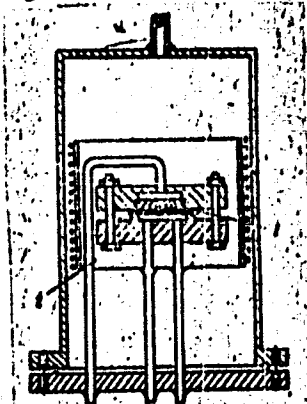


Fig. 1. Device for fine purification of hydrogen. 1 - filter diaphragm; 2 - air-tight housing.

SUB CODE: 13/

SUBM DATE: 11Mar64/

Card 2/2 BLC

L 30248-66 EWP(k)/EWT(d)/EWT(m)/EWP(h)/EWP(l)/EWP(v)/EWP(t)/ETI IJP(c) WW/JH/JD
ACC NR: AP6013811 SOURCE CODE: UR/0064/65/000/012/C022/0024

AUTHOR: Rodina, A. A.; Doronicheva, N. I.

48
B

ORG: none

TITLE: Apparatus for the preparation of high-purity hydrogen¹¹

SOURCE: Khimicheskaya promyshlennost', no. 12, 1966, 22-24

TOPIC TAGS: hydrogen, gas filter, palladium, palladium alloy, silver alloy

ABSTRACT: A device¹⁴ which produces high-purity hydrogen by filtration through a diaphragm of pure palladium or its alloys is described. A diagram of the device is shown in fig. 1. Figure 2 shows the dependence of the output of the device on the entrance pressure at a constant exit excess pressure of 1 tech. atm at various temperatures. At 550°C and P=5 tech. atm, the output of pure hydrogen was 35 l/hr or 440 cm³/hr from 1 cm² of the surface of the diaphragm (which consisted of an alloy of 70% Pd and 30% Ag and was 0.1 mm thick). No oxygen or nitrogen impurities were found in the hydrogen produced (the sensitivity of the analytical apparatus was 10⁻⁷%). The dew point of the hydrogen was below -60°C, which corresponded to a moisture content of 10 mg/m³. Orig. art. has: 3 figures.

UDC: 661.96.002.65.05

Card 1/2

L 30248-66

ACC NR: AP6013811

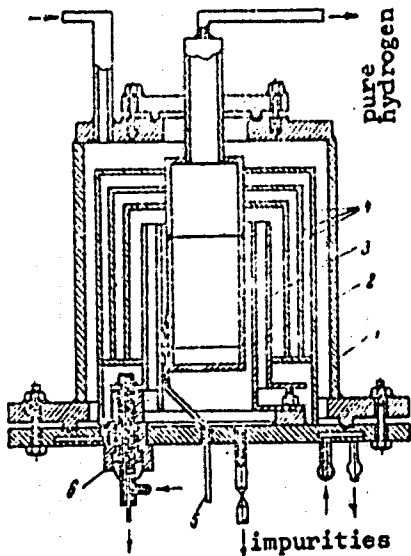


Fig. 1. Diagram of device: 1--diffusion chamber; 2--filtering element; 3--heater; 4--thermal screens; 5--thermocouple; 6--current lead.

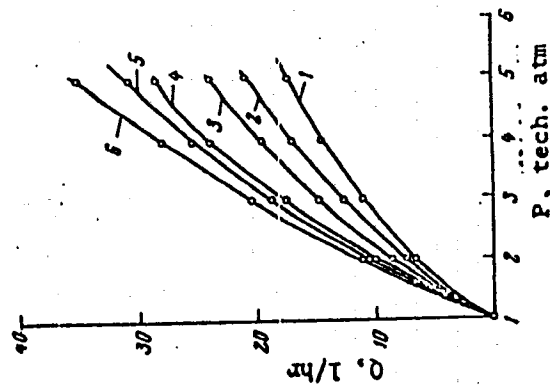


Fig. 2. Dependence of output of device on entrance pressure at various temperatures (exit pressure, 1 tech. atm) 1--250°C; 2--300°C; 3--380°C; 4--460°C; 5--500°C; 6--550°C.

SUB CODE: 07/

SUBM DATE: None /

ORIG REF: 003/

OTH REF: 006

L 33333-66 EWT(m)/EMP(t)/ETI IJR(c) JD/WI/JW/HW
ACC NR: AP6021773 SOURCE CODE: UR/0413/66/000/012/0032/0033

INVENTOR: Rodina, A. A.; Ul'yenov, E.; Doronicheva, N. I.

39
B

ORG: none

TITLE: Purification of ²⁷hydrogen. Class 12, No. 182698

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 32-33

TOPIC TAGS: hydrogen, purification, palladium, silver, silver palladium diaphragm

ABSTRACT: An Author Certificate has been issued for a method of hydrogen purification involving filtration through heated palladium-silver-alloy diaphragms. To intensify the process and to increase the strength of the diaphragms, the method provides for the addition of 5-10% nickel to the alloy. [B0]

SUB CODE: 07/ SUBM DATE: ²⁷19Jul65/ ATD PRESS: 5026

Card 111 ULR

UDC: 661.965

DORONIK, N.A.; OSMINKIN, K.M.

Mechanization of straightening and stacking of transformer plates
following stamping. Stan. & instr. 26 no. 10:29-30 0'55.
(Sheet-metal work) (MIRA 9:1)

DORONIN, A., ANDREYEV, V., starshiy master

Study room on building machinery. Prof.-tekh. obr. 18
no.7:12-13 J1 '61. (MIRA 14:7)

1. Zamestitel' direktora po uchebno-proizvodstvennoy
rabote stroitel'nogo uchilishcha No.1, g. Monchegorsk
(gor Doronin). 2. Rukovoditel' kabineta mekhanizatsii
stroitel'nogo uchilishcha No.1, Monchegorsk (for Andreyev).
(Building trades—Study and teaching)

DORONIN, A.

Examination tasks for graduating students. Prof.-tekh.obr.
19 no.2:16 F '62. (MIRA 15:2)

1. Zamestitel' direktora stroitel'nogo uchilishcha No.1, g.
Monchegorsk.

(Building trades--Study and teaching)

SHLYAKHTIN, Ye.I.; ZHOROVA, A.G.; ANANCHENKO, M.V.; GRISHUTIN, V.G.;
IVANOV, V.I.; DORONIN, A.A.; POPOVA, M.S., inzh.; TARASENKO, I.I.;
ROMANOV, A.I.; ZHUKOV, A.V.; LAPTEV, G.I., inzh.

Who should perform the forwarding and carrier services?
Zhel. dor. transp. 45 no.6:42-45 Je '63. (MIRA 16:7)

1. Zamestitel' nachal'nika stantsii Smolensk Moskovskoy dorogi po gruzovoy rabote (for Shlyakhtin).
 2. Nachal'nik pogruzkontory stantsii Smolensk Moskovskoy dorogi (for Zhorova).
 3. Zaveduyushchiy gruzovym dvorom stantsii Smolensk Moskovskoy dorogi (for Ananchenko).
 4. Nachal'nik tovarnoy kontory stantsii Smolensk Moskovskoy dorogi (for Grishutin).
 5. Zaveduyushchiy konteynernoy ploshchadkoy stantsii Smolensk Moskovskoy dorogi (for Ivanov).
 6. Sekretar' partiynogo byuro stantsii Smolensk Moskovskoy dorogi (for Tarasenko).
 7. Stantsiya Smolensk Moskovskoy dorogi (for Doronin, Romanov, Popova).
 8. Upravlyayushchiy Smolenskimi oblastnym avtotrestom (for Zhukov).
- (Freight and freightage)

DORONIN, A.D., inzh.

Use of the narrow-band filters of the control channel receiver for selective measurements. Avtom., telem. i sviaz' 5 no.5:22-25 My '61.
(MIRA 14:6)

1. Izmeritel'naya gruppa Omskogo lineyno-apparatnogo zala.
(Railroads--Electronic equipment)

BATRAK, G.Ye.; DORONIN, A.G.

Influence of morphine on the resistance of animals to ether during ontogenesis. Farm. i toks. 24 no.4:410-416 JI-Ag '61.

(MIRA 14:9)

1. Kafedra farmakologii (zav. - prof. G.Ye.Batrak) Dnepropetrovskogo meditsinskogo instituta.

(MORPHINE)

(ETHER (ANESTHETIC))

(GROWTH)

DCRONIN, A.N., KABANOVA, O.I.

Chronopotentiometric method for determining microconcentrations of monovalent thallium after its electrolytic accumulation on a rotating platinum disk electrode. Zhur. anal. khim. 20 no.12: 1321-1324 '65. (MIRA 18:12)

1. Institut geokhimi i analiticheskoy khimii imeni V.I. Vernadskogo AN SSSR, Moskva. Submitted November 3, 1964.

L 38108-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD

ACC NR: AP6014140

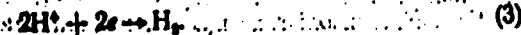
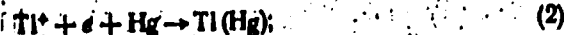
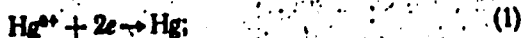
SOURCE CODE: UR/0075/65/020/012/1321/1324

AUTHOR: Doronin, A. N.; Kabanova, O. L.ORG: Institute of Geochemistry and Analytical Chemistry im. V. I. Vernadskiy AN SSSR, Moscow (Institut geokhimi i analiticheskoy khimii AN SSSR)

TITLE: Chronopotentiometric method for determination of micro concentrations of monovalent thallium after electrolytical accumulation on a rotating disk platinum electrode

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 12, 1965, 1321-1324

TOPIC TAGS: thallium, quantitative analysis, potentiometer

ABSTRACT: The article describes the determination of Tl(I) down to a minimum concentration of 5×10^{-8} M. During the cathode cycle (preliminary accumulation) the following electrochemical reactions take place at the electrode:

Card 1/2

UDC: 543.257.1

L 38108-66

ACC NR: AP6014140

3

A rotating platinum electrode in the form of a disk was placed in a Teflon tube. The surface of the electrode was equal to 0.126 cm^2 . The cathode and anode spaces were separated by a porous glass diaphragm. The cell had a capacity of 100 ml. The speed of rotation of the disk was 3000 rev/min. Polarization was carried out at a current density of 5 ma/cm^2 for 3 minutes after the current was turned on. Chronopotentiograms were taken with a type S1-4 oscillograph with an entry resistance of 20 milliohms. The amalgam of thallium was deposited at a constant potential of $E = 1.0$ volts. Within 5 minutes after the start of the electrolysis, the current was shut off and an oscillographic determination was made of the change with time of the potential of the amalgam electrode. The experimental results are shown in graphic and tabular form. It was found that, for solutions of Tl^+ within the limits of 5×10^{-8} to $1.9 \times 10^{-6} \text{ M}$, there is a straight line relationship between the transition time and the concentration of thallium ions. It was shown that it is possible to calculate the transition times for the dissociation of thin layers of amalgam by the Faraday law. Orig. art. has: 4 formulas, 2 figures and 1 table.

SUB CODE: 07, 20/ SUBM DATE: 03Nov64/ ORIG REF: 003/ OTH REF: 005

Card 2/2MLP

1719-66 EWI(L)/FS(v)-3 DD

ACC NR: AP5025767

SOURCE CODE: UR/0247/65/015/005/0831/0837

AUTHOR: Yoronin, L. G. (Moscow); Doronin, G. P. (Moscow)

35
B

ORG: none

TITLE: Using the method of chain motor conditioned reflexes to study the effect of a rarefied atmosphere on CNS functions

SOURCE: Zhurnal vysshey nervnoy deyatel'nosti, v. 15, no. 5, 1965, 831-837

TOPIC TAGS: animal physiology, conditioned reflex, reflex activity, CNS hypoxia

ABSTRACT: The higher nervous activity of ten white rats exposed to pressure-chamber altitudes of 3000-7000 m was studied by observing shifts in their chain food-procuring reflexes. The results of the studies are given in Fig. 1 and Table 1. It was

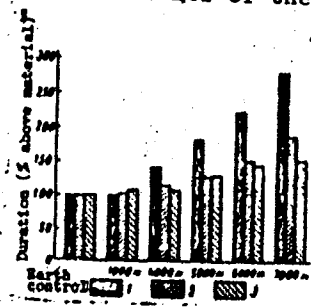


Fig. 1. Change in the duration of various components of the chain food-procuring reflex in rarefied atmospheres

1 - First component; 2 - second; 3 - third.

Card 1/3

UDC: 612.833.81+612.27

L 7719-66

ACC NR: AP5025767

Table 1. Duration of various components of the chain motor reflex in rarefied atmospheres (sec)

Altitude (m)	Duration of motor reactions ($M \pm m$)			
	1st component	2nd component	3rd component	total time
0*	1,38±0,04	1,54±0,03	1,37±0,02	4,29±0,07
3000	1,32±0,16	1,58±0,10	1,42±0,03	4,32±0,24
4000	1,91±0,18	1,61±0,06	1,48±0,04	5,10±0,22
5000	2,54±0,34	2,10±0,10	1,86±0,08	6,50±0,31
6000	3,17±0,34	2,29±0,09	1,95±0,10	7,41±0,42
7000	3,62±0,59	2,93±0,42	2,11±0,17	8,66±1,04

* Control

concluded that, at altitudes of 4000—7000 m, the complicated system of chain motor conditioned reflexes is significantly disturbed. The development of protective inhibition during acute anoxia leads to disruption of the components of food-procuring movements while elementary analytical processes and the synthesis of conditioned stimuli are maintained. Using this type of conditioned reflex, it is possible to study the mechanism of complex analytical-synthetic activity in the cerebral cortex. It is felt that this method is sufficiently precise for general studies of how various environmental factors influence the higher nervous activity of animals. Orig. art. has: 1 table and 2 figures.

[CD]

Card 2/3

1147-00

ACC NR: AP5025767

SUB CODE: LS/ SUBM DATE: 058ep64/ ORIG REF: 015/ OTH REF: 001/ ATD PRESS:

0
4141

Card *318*

DORONIN, F.

Second All-Union Conference of Surgeons, Wound Specialists and
Anesthesiologists. Zdrav.Bel. no.3:67-69 '62. (MIRA 15:5)
(SURGERY, PLASTIC—CONGRESSES)
(ANESTHESIOLOGY—CONGRESSES)

DORONIN, Fedor Nikolayevich; AVILOV, B.I., red.; ZENIN, V.V.,
tekhn. red.

[Cicatricial stenosis of the esophagus] Rubtsovye suzhe-
niia pishchevoda. Saratov, Izd-vo Saratovskogo univ.,
1961. 196 p. (MIRA 15:2)
(ESOPHAGUS—ABNORMALITIES AND DEFORMITIES)

DORONIN, A.Ya.

Using radioactivity methods for tracing tectonic zones. Razved.
i okh. nedr 27 no.3:44-45 Mr '61. (MIRA 14:5)

1. Berezovskaya geologorazvedochnaya partiya.
(Geology, Structural) (Radioactivity prospecting)

DORONIN, D.M.; LOPATINA, M.S.; BAKHIMOVA, N.N.; VOLYNTSEV, M.S.;
BUKOV, B.

New designs of pneumatic grinding machines. Prom.energ. 15
no.4:15 Ap '60. (MIRA 13:6)
(Grinding machines)

DORONIN, F.G.

Automatic Starter for ST-35 equipment. Avtom., telem. i svyaz' no.2:
30-31 F '57. (MLRA 10:4)

1. Elektromekhanik Moskovskoy distantsii signalizatsii i svyazi
Moskovsko-Ryazanskoy dorogi.
(Railroads--Automatic train control)

DORONIN, F.N.

KONDRATCHENKO, A.P., kandidat tekhnicheskikh nauk; REPREV, A.I., inzhener, retsentsent; DORONIN, F.N., retsentsent; ZHUK, A.A., redaktor; KARAMYSHEV, I.A., redaktor; KHITROV, P.A., tekhnicheskiiy redaktor

[Problems of constructing railroad beds in mountainous areas] Voprosy sooruzhenia zheleznodorozhnogo zemlianogo polotna v gornykh usloviakh. Moskva, Gos. transportnoe zhel-dor. izd-vo, 1951.

110 p.

(MIRA 8:6)

(Railroad--Construction)

BERNIN, Fedor Nikolayevich

Treatment of stomach cramps of oesophagus of children

Dissertation for candidate of a Medical Science degree

Chair of Nursery Surgery (head prof. N.V. Zakharov) Saratov Medical Institute,

1952

DORONIN, F.N., kandidat meditsinskikh nauk

**Aponeurotic grafting technic in gastrostomy. Khirurgia no.8:
47-50 Ag '54. (MLRA 7:11)**

**1. Iz kafedry detskoy khirurgii (zav. prof. N.V.Zakharov) i kafedry
gospital'noy khirurgii (zav. prof. A.N.Spiridonov) Saratovskogo
meditsinskogo instituta.**

**(STOMACH, surgery,
gastrostomy, aponeurotic grafting)**

DOBONIN, F.N., kandidat meditsinskikh nauk

Treatment of suppurative septic diseases of the face and scalp with intracarotid administration of penicillin procaine solution. Vest.khir. 74 no.8:38-40 D '54. (MLRA 8:10)

1. Iz kafedry gosptal'noy khirurgii (sav.prof. A.N.Spiridonov) Saratovskogo gosudarstvennogo meditsinskogo instituta. Adres avtora: Saratov, Astrakhanskaya ul, d.71 kv.7.

(HEAD, diseases,

suppurative & septic dis.,ther.,procaine penicillin)

(PENICILLIN, derivatives,

procaine-penicillin, ther. of suppurative & septic dis. of head)

EXCERPTA MEDICA Sec.9 Vol.11/7 Surgery July 1957
DORONIN F. N.

3699, DORONIN F. N. Med. Inst., Saratoff. Occlusion of the strictured
oesophagus by foreign bodies (Russian text) SOVETSK. MED.
1956, 4 (67-70)

Various foreign bodies (meat, fruit stones, balls, etc.) become easily impacted in a cicatricial stricture of the oesophagus, causing complete occlusion of the lumen. In such a case the general condition of the patient deteriorates far more rapidly than could be explained by mere starvation. Factors to be considered are: (1) marked disturbances of secretory and motor function of the bowels, (2) ascending anaerobic infection of the bowels and (3) stasis in the portal system associated with a failure of liver function. Removal of a foreign body by oesophagoscopy is, in these cases, difficult and often unsuccessful. If the general condition of the patient is bad, the author suggests doing gastrostomy first. After 3 - 4 days he makes the patient vomit by introducing into the stomach a considerable amount of warm water. This manoeuvre is, in his experience, usually successful in expelling the foreign body from the stricture. After some days treatment of the oesophageal stricture, preferably by retrograde bouginage, should be instituted.
Szpunar - Cracow (XI, 8)

DORONIN, F.N., kand.med.nauk (Saratov)

Multiple foreign bodies in the stomach. Klin.med. 35 no.11:146-147
N '57. (MIRA 11:2)

1. Iz kafedry gosptisl'noy khi:urgii (zav. - prof. A.N.Spiridonov)
lechebnogo fakul'teta Saratovskogo meditsinskogo instituta.
(STOMACH, foreign bodies
multiple,surg.)

DORONIN, F.N., kandidat meditsinskikh nauk (Saratov, Astrakhanskaya ul.,
D.71, kv.7)

Causalgia treatment by novocain injection into the common carotid
artery. Vest.khir. 78 no.3:127 Mr '57. (MLRA 10:6)

1. Is gospital'noy khirurgicheskoy kliniki (sav. - prof. A.N.
Spiridonov) Lechebnogo fakul'teta Saratovskogo meditsinskogo
instituta.

(NEURALGIA, ther.

procain, inject. into common carotid artery (Rus))

(PROCAINE, ther. use

neuralgia, inject. into common carotid artery (Rus))

DORONIN, F.N., kand.med.nauk (Saratov)

The problem of surgery in cholecystitis. Klin.med. 36 no.2:75-83
P '58. (MIRA 11:4)

1. In gospital'noy khirurgicheskoy kliniki (zav. - prof. A.N.
Spiridonov) lechebnogo fakul'teta Saratovskogo meditsinskogo
instituta.

(CHOLECYSTECTOMY, in various dis.
cholecystitis, indic. & hazards (Rus))

DORONIN, F.N., kand.med.nauk (Saratov)

Invagination of the small intestine into the stomach through a gastroenteroanastomosis. Klin.med. 36 no.4:85-88-1448 (MIRA 11:5)

1. Iz kafedry gospiatal'noy khirurgii (zav. - prof. A.N. Spiridonov) lechebnogo fakul'teta Saratovskogo meditsinskogo instituta.

(INTUSSUSCEPTION, case reports

invagination of small intestine into stomach through gastroenteroanastomosis (Rus))

(STOMACH, surg.

jejunojunogastrostomy, postop. invagination of small intestine into stomach through anastomosis (Rus))

(JEJUNUM, surg.

same)

DORONIN, F. N. (Cand. of Med. Sci.) -- Saratov

"Remote Results of Treatment of Esophageal Strictures."

Report submitted for the 27th Congress of Surgeons of the USSR, Moscow,
23-28 May 1960.

DORONIN, F.N.

Intracarotid administration of novocaine in clinical practice and
in experiment. Eksper. khir. 5 no.4:53-55 Je-Ag '60.

(MIRA 13:12)

(NOVOCAINE)

DORONIN, F.N.

Intracarotid administration of novocaine in cerebrocranial lesions.
Vest.Khir. 84 no.6:120-123 Je '60. (MIRA 13:12)
(NOVOCAINE) (BRAIN—WOUNDS AND INJURIES)

DORONIN, F.N., kand.med.nauk

Preventing complications in the osteosynthesis of open fractures
of tubular bones. Khirurgiia no.9:7-13 '61. (MIRA 15:5)

1. Iz kafedry gosspital'noy khirurgii (zav. - prof. A.N. Spiridonov) lechebnogo fakul'teta Saratovskogo meditsinskogo instituta.
(FRACTURES)

ACCESSION NR: AT4042678

S/0000/63/000/000/0173/0176

AUTHOR: Doronin, G. P.

TITLE: An investigation of chain motor conditioned reflexes during prolonged exposure of animals to an altered respiratory medium

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy konferentsii. Moscow, 1963, 173-176

TOPIC TAGS: chain motor reflex, respiratory gas, rat, carbon dioxide effect, high altitude effect, chain reflex activity, hypoxia, altered respiratory medium

ABSTRACT: Chain motor conditioned reflexes of white rats were tested in normal and increased concentrations of carbon dioxide at simulated altitudes up to 10,000 meters. Duration of the tests was from 2 to 60 days. In a 2% carbon dioxide medium there was no substantial change in the structure of chain reflexes during the first three days. The characteristic reactions were lengthened periods of motor activity. However, in a 5% carbon dioxide medium there were sharp alterations in chain reflex activity after one day. By the second week there

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ACCESSION NR: AT4042678

was restoration of chain reflexes on some levels although reaction to conditioned inhibitory stimulus remained unstable, indicating a growing deficit of internal inhibition. It was observed that maintaining a normal oxygen level in rarefield atmospheres preserved chain reflexes. However, brief hypoxia at simulated altitudes of 4,000 and 5,000 meters disrupted the structure of chain reflexes and evoked a phase condition. At 6,500 meters, some animals displayed full inhibition sooner than complex generated systems of conditioned motor reflexes. It was concluded that the sensitivity of chain motor reflexes makes them a useful tool in aviation and space medicine.

ASSOCIATION: none

SUBMITTED: 278ep63

NO REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: LS

Card 2/2

ACCESSION NR: AP4002548

S/0247/63/013/006/0953/0962

AUTHOR: Agadzhanyan, N. A.; Bizin, Yu. P.; Doronin, G. P.;
Kuznetsov, A. G.

TITLE: Changes in higher nervous activity and in some vegetative reactions during a prolonged stay in relative adynamia and isolation

SOURCE: Zhurnal vysshey nervnoy deyatel'nosti, v. 13, no. 6, 1963, 953-962

TOPIC TAGS: higher nervous activity, vegetative nervous system, adynamia, adynamia effect, isolation, isolation effect, nervous activity, central nervous system, afferent impulse, confined environment

ABSTRACT: Two human subjects were studied in a specially equipped SBK-48 pressure chamber under conditions of relative adynamia and isolation for a period of 60 days. Conditioned reflex reactions were recorded by a multichannel oscillograph. Electromyogram, ECG, EEG, respiratory rate, and blood pressure were used as indices of physiological reactions. Work capacity of the subjects was determined by their reaction to light signals, ability to solve mental problems,
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ACCESSION NR: AP4002548

and coordination of movement. It was found that conditioned reflex activity is characterized by waves and phases during the various periods of investigation. A subject's ability to coordinate difficult movement does not change, but his speed of movement is distinctly lower. Fatigue and emotional instability appear between the 10th and 16th days and work capacity is reduced. Heart rate increases, and respiratory rate and blood pressure decrease. After a physical load, physiological reactions are restored much later in the second half of the experiment. Changes in vegetative and motor reactions appear to be caused by protective blocking of the central nervous system and by its reduced excitability. To compensate for the unfavorable conditions of hypodynamia and isolation, a special program of physical exercises should be developed to ensure increased work capacity.

Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: None

SUBMITTED: 20Apr63

DATE ACQ: 07Jan64

SUB CODE: AM

NO REF SOV: 011

ENCL: 00

Card 2/2

OTHER: 000

L 58858-65 EWG(a)-2/1WG(o)/EWG(j)/EWG(r)/EWG(v)/ENT(1)/FS(v)-3 DD

ACCESSION NR: AP5015946

UR/2047/65/015/003/0438/0444

612.014.464+612.275 :

616-001.11+612.833.81

30
8

AUTHOR: Agadzhanyan, N. A. (Moscow); Bizin, Yu. P. (Moscow); Doronin, G. P. (Moscow); Kuznetsov, A. G. (Moscow); Mansurov, A. R. (Moscow)

TITLE: Effect on animals of prolonged inhalation of pure oxygen at low barometric pressure

SOURCE: Zhurnal vysshey nervnoy deyatel'nosti, v. 15, no. 3, 1965, 438-444

TOPIC TAGS: low pressure chamber, barometric pressure, respiration, water metabolism, salt metabolism, central nervous system

ABSTRACT: Central nervous system function and some indices of water and salt metabolism were studied in dogs subjected to low pressure corresponding to an altitude of 10,000 m (198 mm Hg) during a prolonged stay (about 100 days) in an atmosphere of pure oxygen. No significant changes were detected in the animals. Firmly established chain motor conditioned reflexes were not impaired. They completely retained their structure and the temporary characteristics of the individual links.

Card 1/2

L 58858-65

ACCESSION NR: AP5015946

The first part of the experiment was marked by a weakening of internal inhibition, which was reflected in more numerous inadequate and negative reactions to the use of conditioned inhibition. As the animals adapted, these reactions became normal, an indication that the balance in the basic nerve processes was restored. During the first 30 days, changes were observed in water-salt metabolism--reduced hydrophilic capacity of the skin, reduced blood salt, increased rate of salt excretion with urine, and loss of weight. These changes became less pronounced as the animal adapted. X-ray and morphological investigations showed that the volume of the lung and thorax decreased during the first few days of the experiment. These changes were signs of congestion in the blood vessels of the pulmonary circulation and atelectasis. They proved to be functional in nature and reversible. Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 27May64

ENCL: 00

SUB CODE: LS

NO REF SOV: 007

OTHER: 002

ljp
Card 2/2

L 14271-66 EWI(1)/FS(v)-3 SCTB DD/RD

ACC NR: AT6003838

SOURCE CODE: UR/2865/65/004/000/0031/0043

AUTHOR: Agadshanya, N. A.; Bizin, Yu. P.; Doronin, G. P.; Il'in, Ye. A.;
Kuznetsov, A. G.; Yezepchuk, N. I.

55
BT1

ORG: none

TITLE: Effect on the human organism of a prolonged sojourn in a closed chamber
of small volume

2, 55

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy
biologii, v. 4, 1965, 31-43

TOPIC TAGS: man, respiration, life support system, space chamber test, space
physiology, central nervous system, cardiovascular system, space psychology

ABSTRACT: Experiments were performed in order to study the nature of changes
in the basic functions of the organism during a prolonged stay by 2 subjects
in a specially equipped pressure chamber with a 7-m³ capacity. Air com-
position, temperature, and humidity were automatically maintained at a
constant level by means of a special life-support system developed by G. I.
Badikov, B. A. Miloslavov, and G. I. Solov'yev. The automatic system

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2

L 14271-66

ACC NR: AT6003838

maintained a partial oxygen pressure of 155—165 mm Hg, the CO₂ content below 2 mm Hg, the air temperature at 19.5 to 23.5° C, and the relative humidity at 40—70%. Telephone communications with the subjects were kept to a minimum.

Higher nervous activity, the bioelectrical activity of the cerebral cortex, standard EKG, arterial pressure, gas exchange, functions of external respiration, and oxygen saturation of the blood were studied during the course of the experiment. Daily tests of blood and urine were made. Detailed medical examinations were made before and after the experiment.

As the experiment progressed, the time required for performance of conditioned motor acts increased from 15—20 sec at the beginning of the experiment to 25—28 sec 30 days later, and to 35—37 sec by the end of the experiment. The quality of coordination did not show any substantial changes. There were no changes in the time required for solving arithmetical problems. Indications were obtained that prolonged isolation in a small chamber leads to the development of protective inhibition and a lowering of the flexibility of the nervous processes. The second half of the experiment was characterized by a loss of interest, the appearance of irritability, and in-

Card 2/5

L 14271-66

ACC NR: AT6003838

creased emotional instability. The lowering of the tonus of the cerebral cortex was evident from the EEG, which toward the end of the experiment showed a sharp decrease in the alpha index, accompanied by a dominance of slow waves (4-6 cps) and the appearance of waves with a frequency of 0.5-2 cps.

Experimental data showed that by the end of 60 days, the pulse frequency tended to drop by 8-10 strokes (20%), systolic pressure by 10-16%, and diastolic pressure by 7-8%, indicating a drop in the vascular tone and a weakening of the functional ability of the cardiovascular system. An increase in the stroke and minute volume of the heart, a drop in the peripheral resistance of the circulatory system, and an increase in the latent period of vascular reactions were observed.

Tests performed after the experiment showed a depression in the adaptive mechanisms of the body and a sharp increase in the excitability of the circulatory system. X-ray studies showed that prolonged hypokinesia and isolation caused a significant decrease in the size of the hearts of both subjects. This is considered to be the result of detraining.

Card 3/5

L 14271-66

ACC NR: AT6003838

During the course of the experiment, oxygen consumption dropped on the average by 32%, while CO₂ production diminished by 26%. Pulmonary ventilation dropped by 2—2.5 liters/min. These results indicate a drop in energy expenditures from 30.15 to 20.85 kcal/kg per diem.

During the course of the experiment there was a short-term increase in the number of erythrocytes and reticulocytes. Occasionally, there was also an increase in the number of lymphocytes. Beginning with the second half of the experiment, the absolute number of eosinophils increased by a factor of 1.5—2. An investigation of the phagocytic activity of neutrophils showed an increase of this activity toward the end of the experiment.

The reactions of individuals to a prolonged stay in a small chamber differ considerably, and this factor should be taken into account in the selection of cosmonauts for flights of long duration. At the same time, it is necessary not only to increase afferentation but also to properly work out a schedule for work and rest. This means that the assigned tasks have to be more varied, more creative, and require a greater variety of physical skills. Entertainment will also have to be carefully worked out and should include music, radio, and television in order to create a psycho-

Card 4/5

L 14271-66

ACC NR: AT6003838

logically stimulating environment. Orig. art. has: 3 figures and 1 table.
[ATD PRESS: 4091-F]

SUB CODES: 06, 05 / SUBM DATE: none / ORIG REF: 010 / OTH REF: 006

PC
Card 5/5

VORONJIN, L.G. (Moskva); DORONIN, G.P.

Study of the effect of rarefied atmosphere on the functions of the central nervous system by the method of chain motor conditioned reflexes. Zhur. vys. nerv. deiat. 15 no.5:831-837 S-0 '65. (MIRA 18:11)

DORONIN, G. YA.

36556. Nekotoryye neravenstva dlya priblizheniy trigonometricheskimi polinomami
Doklady akad. nauk sssr, novaya seriya, t. lxxix, no. 4, 1949, c.487-90 - Bibliogr:
5 nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

DORONIN, I. L.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 539 - I

BOOK

Call No.: A1639799

Authors: GOLINKEVICH, T. A. and DORONIN, I. L.

Full Title: BASIC PRINCIPLES FOR DESIGN AND MANUFACTURING OF INSTRUMENTS (Analyst's note: only apparatuses of anti-aircraft director type are discussed)

Transliterated Title: Osnovy proyektirovaniya konstruksiy i tekhnologicheskikh protsessov v priborostroyeni

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of the Defense Industry

Date: 1954 No. pp.: 275 No. of copies: Not given

Editorial Staff

Golinkevich, T. A., Editor-in-Chief Kashepava, M. Ya., Editor
Zudakin, I. M., Technical Editor

PURPOSE: To be a textbook for students at the Technicums, also - as a manual for workers in the instrument and apparatuses' industry.

TEXT DATA

Coverage: The book is devoted to design of a precision-type computing apparatus, such as devices for firing control. The anti-aircraft director PUAZO (Pribor upravleniya artilleriyskim zenitnym ognem) is specifically referred to and illustrated. Diagrams, basic formulae, calculations for actuating mechanisms and feedback system are provided. The technology, flow sheets, materials (metal

Osnovy proyektirovaniya konstruktsey i tekhnologicheskikh protsessov v priborostroyenii

AID 539 - I

alloys and others), finishing of elements, detection of defects, and assembly of completed apparatuses are outlined. The anti-aircraft director PUAZO-3 is photographically illustrated several times.

No. of References: 21, all Russian [1940-1952], including Teoriya PUAZO, Sudpromgiz, 1948 (Theory of PUAZO), by Pchel'nikov, N. I.

Facilities: None

DOZONIA, L.P.

PROCESSES AND PROPERTIES INDEX

The mechanical properties at high temperatures of seams welded with the Z-1 electrode. I. Dozoniy. *Vestnik Metallopro. 18, No. 9, 84-72 (1961); Chem. Zvesti 1937, 1, 1262.* Data were made of the mech. properties at temps. of 20-650° shown by weld seams produced by arc-welding using Z-1 electrodes. The influence of previous normalizing treatment on the mech. properties of such welds over this temp. range was also noted. Samples of boiler plate 14 mm. thick and contg. C 0.15, Mn 0.40, Si 0.034, S 0.018 and P 0.008% were welded using Z-1 electrodes the weld seam contained C 0.15, Mn 0.21, Si 0.038, S 0.013, P 0.021, N₂ 0.017 and O₂ 0.18%. The mech. properties at high temps. were shown to depend on the chem. compn. and the structure of the original material. Especially in the region of blue heat the mech. properties of the fused-on metal deviate from those of the low-C steel. The influence of the structure of the alloy in the original metal on its behavior at high temps. was substantiated by microscopic investigation. By the use of Z-1 electrodes better mech. properties were obtained in the fused-on metal than with the use of electrodes coated with chalk or "Lim-Masse" (Leningrad Inst. for Metals). Moreover, the strength of seams made with the use of Z-1 electrodes was not inferior to that of the base metal. At temps. of 500-650° the metal of the seam still possessed a tensile strength of 24.6-25.6 kg./sq. mm. Previous normalization at 900° slightly impaired the mech. properties of the fused metal throughout the temp. range studied.

M. G. Miron

7

ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION

USSR .

✓0020 - Electric Arc Welding of Lead and Tin
and Aluminum Wire. *Elektricheskie svarki*
Aluminum wire. *svarka* *svarka* *svarka*

V 14825° Arc Welding of Copper by Copper Electrodes. Doga-
vats avarka izest' neodarnye elektrodami. (Russian.) I. I.
Dogaev and V. M. Sventitskii. *Sovetskaya Fizicheskaya*, 1955,
No. 8, Aug., p. 17-18.

MG Advantages over gas welding, including minimizing porosity in
welded seams; use of Si-Mn-Al alloy ("simanal") as de-
oxidizing agent and other substances; strength, micro-structure,
and other properties of weld. Tables, photographs. 3 ref.

of [unclear]

DORONIN, I. S., aspirant

Effect of the elements of the central suspension on the lateral vibrations of a passenger car. Vest TSNIi MPS 23 no. 3:13-16
164. (MIRA 17:5)

DORONIN, I.S., aspirant

Arresting devices of the central suspension of passenger cars.
Vest. TSNII MPS 24 no.2:39-41 '65. (MIRA 18:5)

I 13052-65 BWT(m)/EWA(d)/EWP(t)/EWP(b) MJW/JD/RW/JT/MLK

ACCESSION NR: A74046849

S/0000/64/000/000/0243/0246

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TITLE: Dependence of the strength on rate of heating for Armco iron and 1Kh18N9T and EI-925 steels at high temperatures

SOURCE: AN SSSR. Nauchnyy sovet po probleme zharoprochnykh splavov. Issledovaniya staley i splavov (Studies on steels and alloys). Moscow, Izd-vo Nauka, 1964, 243-246

TOPIC TAGS: steel strength, steel annealing, steel cold working/Armco iron, 1Kh18N9T steel, EI-925 steel

ABSTRACT: A vertical tensile-stress testing machine, developed at the Laboratoriya metallofizicheskikh problem termicheskoy obrabotki Moskovskogo instituta stali i splavov (Laboratory of metallophysical problems of thermal treatment, Moscow Institute of Steel and Alloys), was employed in high-temperature tests of annealed Armco iron and both annealed and cold-worked 1Kh18N9T(a) and EI-925(b) steels in an attempt to bring the test conditions closer to those actually experienced by performing materials than can be attained with the use of standard methods. Wire samples 1.5 mm in diameter and 120 mm long were heated at rates of 50, 500 and 2000C/sec. by passing a 50 cps AC current to the

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point of rupture at 2.5, 5.0, 10.0, 15.0, 20.0, and 22.5 kg/mm² loads for Armco iron and (a), and at 3.75, 15, 22.5, and 30 kg/mm² loads for (b). The temperature and elongation were tape-recorded by an MPO-2 oscillograph, with a 60 μ-thick chromel-alumel thermocouple, and a differential extensometer-recorder, sensitive to 0.01% elongations, was used to measure small deformations. The tests yielded a rather complex and ununiform data pattern, from which it may be concluded: 1) that the greater the rate of heating, the greater the temperature of rupture and the temperature at which an elongation of 0.5% is reached in Armco iron; 2) that at high rates of heating (~200C/sec.) the temperature of 0.5% elongation is higher for annealed (a) samples than for cold-worked (a) samples; and 3) that aging and the effect of "auto-strengthening" are more pronounced in (b). The data are extensively discussed. Orig. art. has: 4 figures and 1 table.

ASSOCIATION: None

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NO REF SOV: 000

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RITOV, M.H.; MIKHAYLOV, A.N.; DCRONIN, I.Ye.; MANAKIN, H.V., redaktor;
MAL'KOVA, H.V., tekhnicheskii redaktor

[Progressive methods of bulldozer work] Peredovye metody bul'-
dozernykh rabot. Moskva, Nauchno-tekhn. izd-vo avtotransportnoi
lit-ry, 1954. 34 p. (MIRA 8:6)
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DORONIN, K.

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Late results of surgical treatment of mitral stenosis. Vest.
khir. 93 no.8:3-10 Ag '64. (MIRA 18:7)

1. Iz gosptal'noy khirurgicheskoy kliniki (zav. - prof. F.G.Uglov)
1-go Leningradskogo meditsinskogo instituta imeni Pavlova.

SPIRIDONOV, Aleksandr Nikolayevich; DOMONIN, N.

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KOMAR, T., bukhgalter; ZELEZINSKAYA, S.; POSTOLOV, I.; DORONIN, N.

Problems in managerial planning, calculation, and organization.
Muk.,elev. prom. 29 no.2:16-17 F '63. (MIRA 16:8)

1. Starshiy ekonomist Grodnenskogo upravleniya khleboproduktov (for Zelezinskaya).
2. Ministerstvo proizvodstva i zagotovok sel'skokhozyaystvennykh produktov Uzbekskoy SSR (for Postolov).
3. Glavnyy inzh. Lukhovitskoy Mal'nitsy Moskovskoy oblasti (for Doronin).

(Grain)

DOROHIN, N.A.; OSMINKIN, K.N.; SUKHOV, I.V., inzh., red.; KLOPOVA, T.B.,
tekh.n.red.

[Device for straightening and stacking flat pressed parts]
Prisposoblenie dlia rikhtovki i ukladki v pachki shtampovannykh
ploskikh detalei. Leningrad, 1955. 4 p. (Leningradskii dom
nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii
listok, no.91(779)) (MIRA 10:12)

(Power presses---Attachments)

18(4)

PHASE I BOOK EXPLOITATION SOV/2716

Doronin, Nikolay Andreyevich

Metallurgiya kal'tsiya (Metallurgy of Calcium) Moscow, Izd-vo
Glav. upr. po ispol'zovaniyu atomnoy energii pri Sovete Ministrov
SSSR, 1959. 89 p. Errata slip inserted. 3,7000 copies printed.

Ed. (Title page): Yu. N. Golovanov, Doctor of Technical Sciences;
Ed. (Inside book): Z. S. Shirokova; Tech. Ed.: Ye. I. Mazel'.

PURPOSE: This book is intended for metallurgists and researchers
in reactor technology.

COVERAGE: The book generalizes experimental and industrial data
from Soviet and other literature on the metallurgy of calcium,
with special reference to the use of calcium as a reducing agent
in the metallurgy of high-melting rare metals and their alloys
and in the metallurgy of uranium and thorium. The author believes
this to be the first monograph on calcium metallurgy. There are
37 figures, 14 tables and 27 Soviet references. No personalities
are mentioned.

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N.A., tekhn. red.

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Production of polysylvan from the wood-chemical sylvan. Gidroliz.
i lesokhim.prom. 17 no.2:22-23 '64. (MIRA 17:4)

1. Institut khimii polimerov AN UzSSR (for Abduvaliyev,
Khaydarov, Sultanov). 2. Ashinskiy lesokhimicheskiy kombinat
(for Sigov, Doronin, Tarasova).

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No 1. (Bibliography from article Foot and Mouth Disease by A. D. Skomorokhov,
State Publishing House for Agricultural Literature, Moscow/Leningrad 1947.)

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