"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

SUBMITTED: 17Dec65 ENCL:

NO REF SOV: 005 OTHER: 001

Card 2/2

IEV, M.B.; PAVLOVSKAYA, Ye.I.

Use of porous ceramic metal firebreaks for the localization of flame. Porosh. met. 5 no.1:74-78 Ja '65. (MIRA 18:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut neftyanogo mashinostroyeniya.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

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L 55301-65 EWT(1)/EWT(m)/EWP(w)/EPF(n)-2/EWG(m)/EWA(d)/EPA(w)-2/T/EWP(t)/EWP(b)
ACCESSION NR: AP5010097 UR/0368/65/002/002/0097/0104

AUTHORS: Bodratsova, A. I.; L'vov, B. V.; Pavlovskaya, Ye. N.; Prokof'yev, V. K.

TITLE: Some spectroscopic characteristics of sealed lamps with hollow cathodes made of different metals

SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no. 2, 1965, 97-104

TOPIC TAGS: spectroscopic characteristic, sealed lamp, emission spectroscopy, hollow cathode

ABSTRACT: The authors investigate the dependence of the intensity of resonance lines in sealed lamps with hollow cathodes made of various metals (Al, Bi, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mo, Ni, Pb, Sb, Sn, Ti, and Zn) on the type and pressure of the inert gas filling the lamp and on the discharge current. They also investigated the dependence of the widths of these lines on the current and on the type of gas. A picture of the hollow-cathode lamp used is shown in Fig. 1 of the

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L 58301-65
ACCESSION NR: AP5010037

Enclosure. The intensity of the resonance lines was measured photoelectrically using a diffraction monochromator with dispersion 6 A/mm (in the visible and ultraviolet regions) and the universal UM-2 monochromator (in the visible region of the spectrum). The pressure of the gas was such as to maintain the glow stable near the hollow cathode. The discharge current ranged from 15 to 30 mA, depending on the cathode material. The results show that the metals tested can be divided into three groups, depending on their resistance to melting, singularities in the variation of the intensity of the resonance lines, and the variation of the voltage drop on the tube as a function of the gas pressure. The first group (Co, Ci, Cu, Fe, Mo, Ni, Ti) has a line that goes through a pronounced maximum, (at 3 -- 4 mm Hg for neon) and a rapidly falling voltage drop. The second group (Mg, Ca, and Al) is similar to the first group, except for the case of Ca, where only argon produces a pronounced maximum. In the case of the third group (Bi, Cd, Pd, Sb, Sn, and Zn) no gas gave a pronounced maximum of intensity. A check on the stability of the tubes showed that the fluctuation noise is due more to the shot effect of the receiver than

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L 58301-65
ACCESSION NR: AP5010037

to internal noise of the tube, and that in any case the noise does not exceed 0.1 per cent. Original article has: 7 figures, 1 formula, and 2 tables

ASSOCIATION: None

SUBMITTED: 27Jul64 ENCL: 01 SUB CODE: OP

NR REF SOV: 006 OTHER: 005

Card 3/4

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKAYA, Ye. N.

PAVLOVSKAYA, Ye. N. and C[illegible]S, A. F. "Bedbugs as a carrier of the spirochete of Central Asian recurrent tick typhus under experimental conditions", In the Collection: Voprosy krayevoy, obshchey i eksperim. parazitologii, Vol. IV, Moscow, 1[illegible], [illegible].

SO: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

MEL'NIKOV, S. A.; PAVLOTSKAYA, Ye. V.; SHTUL'MAN, D. R. (Moskva)

Thrombosis and thrombophlebitis of the cerebral veins. Klin. med. no.9:22-27 '61. (MIRA 15:6)

1. Iz kliniki nervnykh bolezney (zav. - prof. V. V. Mikheyev) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I. M. Sechenova.

(CEREBROVASCULAR DISEASE)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

T

USSR/Human and Animal Physiology - Internal Secretion.
The Sex Glands.

Abs Jour : Ref Zhur Biol., No 3, 1959, 13049

Author : Pavlovskaya, Yu.M.
Inst :
Title : The Estrual Cycle in Rats and the Histological Structure of Their Ovaries after Ovariectomy

Orig Pub : V sb.: Materialy trudov IV s"yezda akusherov-ginekologov, 1957, 205-208

Abstract : In sexually non-mature and mature rats 1 ovary was removed. The phase of quiescence became shorter, and the duration of estrus longer (observation for 8 months). Cysts were found in the remaining ovary. With the removal of part of the ovary the cycle did not change (in some rats after 8 months estrus was somewhat lengthened); there was no change in the intact ovary, Removal of 1 entire ovary was never without some post effects.

Card 1/1

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKAYA, Yu. M., Cand of Med Sci -- (diss) "The Special Features of a Single Ovariectomy on the Menstrual Cycle and Childbearing Function of Women," Irkutsk, 1959, 14 pp (Irkutsk Medical Institute) (KL, 5-60, 130)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKAYA, Z. N.

"Anesthetized Childbirth Using Tekodin (Dihydrohydroxy Codeinone Hydrochlorate) and Lydol" Akueher. i Ginekol., No. 6, 1949. Cand. Med Sci, Major, Med Corps. Obstetric & Gynecological Clinic, Mil. Med. Acad. Im. S. M. Kirov -c1949-.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

VIRNIK, David Isaakovich; VLASOV, Aleksandr Pavlovich; TALANTSEV, Dmitriy Zinov'yevich; KHOKHLOVA, Zinaida Vasil'yevna; LIBERMAN, S.G., kand. tekhn. nauk, retsenzent; PAVLOVSKAYA, Z.N., inzh.-tekhnolog, retsenzent; MOROZOVA, I.I., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Technology of glue and gelatine]Tekhnologiia kleia i zhelatina. [by] D.I.Virnik, i dr. Moskva, Pishchepromizdat, 1963. 479 p. (MIRA 16:8)

(Glue) (Gelatine)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKAYA, Z.N.

Chorioepithelioma of the fallopian tube. Akush. gin. no.3:73-74 May-June 1953. (CIML 25:1)

1. Candidate Medical Sciences. 2. Leningrad.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKAYA, Z.N., kandidat meditsinskikh nauk.

Local anesthesia of the pudendal nerve with lupicaine in the second stage of labor. Akush.i gin. no.1:14-16 Ja-F '54. (MLRA 7:6)

1. Iz Voyenno-meditsinskoy akademii im. S.M.Kirova.
(Labor (Obstetrics)) (Anesthesia in obstetrics)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKI, K.

Improving the system of filling in the Bulgarian ores mines. p. 61
Minno Delo Vol. 13, No. 3, May/June 1958, Sofiia, Bulgaria.

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 10,
Oct. 58

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

IVANOV, B., inzh.; PAVLOVSKI, K., inzh.

Shaft sinking with highly watered sand and gravel. Min delo 17 no.5:32-34 My '62.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.A., dotsent, kand.tekhn.nauk

Department of Hydraulic Engineering. Sbor.nauch.trud.Bel.politekh. inst. no.66:35-44 '57. (MIRA 16:9)

1. Dekan gidrotekhnicheskogo fakul'teta Belorusskogo politekhnicheskogo instituta imeni Stalina.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, Aleksandr Alekseyevich [Paulouski, A.A.], kand.tekhn.nauk; SHCHITNIKOV, P.I. [Shchytnikau, P.I.], inzh.-gidrotekhnik, nauchnyy red.; KOROLEVICH, M.A. [Karalevich, M.A.], red.; VOROTINSKAYA, S.A. [Varatynskaia, S.A.], tekhn.red.

[Using hydraulic machinery in the drainage of White Russian swamps] Gidromekhanizatsiia na asushal'nykh rabotakh u BSSR. Minsk, 1959. 23 p. (Tavarystva pa raspausiudzhvanniu palitychnykh i navukovykh vedau Belaruskai SSR. Seryia pryrodaznauchanavukovaia, no.14). (MIRA 13:4)

(White Russia--Hydraulic engineering)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.A.

Development of mechanized drainage operations in White Russia during the last 40 years. Sbor.nauch. trud. Bel. politekh.inst. no.78:3-21 '60. (MIRA 13:11)

(White Russia--Drainage)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.A.; ARVAN, M.B.; YEZERSKIY, N.V.

New machine for installing tile drainage. Sbor.nauch. trud. Bel. politekh.inst. no.78:41-51 '60. (MIRA 13:11)
(Drainage--Equipment and supplies)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.P., inzh. (Zaporozh'ye)

Neutralization of cyanide compounds. Vod. i san. tekh. no.8:36 Ag '65. (MIRA 18:12)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

MATERIKOV, Mikhail Prokop'yevich; MARSHUKOVA, Nira Kuz'minichna; PAVLOVSKIY, Al'fred Bernardovich; APEL'TSIN, F.R., otv.red.

[Tin potential of Central Asia.] Olovonosnost' Srednei Azii. Moskva, Nedra, 82 p. (Moscow. Vsesoiuznyi nauchno-issledovatel'skii institut mineral'nogo syr'ia. Trudy, no.13)

(MIRA 18:1)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

MATERIKOV, M.P.; MARSHUKOVA, N.K.; PAVLOVSKIY, A.B.

Prospects for finding tin in Central Asia. Sov. geol. 6 no.9:90-104 S '63. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

MATERIKOV, M.P.; PAVLOVSKIY, A.B.

Magmatic sources of mineralization and the relative depth of deposits of cassiterite-quartz and cassiterite-sulfide formations. Sov.geol. 2 no.9:86-93 S '59. (MIRA 13:2)

1. Vsesoyuznyy institut mineral'nogo syr'ya (VIMS).
(Ore deposits)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

SHCHEGLOV, A.D.; BEUS, A.A.; BORODIN, L.S.; ITSIKSON, G.V.; PAVLOVSKIY, A.B.; RUNDKVIST, D.V.; SIDORENKO, Z.V.; TVALCHRELIDZE, G.A.

Conference on the problems of postmagmatic ore formation. Sov. geol. 7 no.3:144-153 Mr '64. (MIRA 17:10)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A-E

17

Drying of Blastfurnace rustless waste in the First Nikolaev Plant. N. N. Verigo and A. O. Pavlovskii. Tsvetnaya Metal. 1934, No. 3, 47-9.

A. A. Boehlingk

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

SKLEZKOV, G.V.; PAVLOVSKIY, A.I.; ZYSIN, Yu.A.

Discharge device for precise commutation of power pulses. Prib.i tekh.eksp. 6 no.5:89-91 S-O '61. (MIRA 14:10)
(Pulse techniques (Electronics))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

37797

S/120/62/000/002/022/047
E032/E414

9.2580

AUTHORS: Pavlovskiy, A.I., Sklizkov, G.V.

TITLE: Production of rectangular high voltage pulses

PERIODICAL: Pribory i tekhnika eksperimenta, 7 no.2, 1962, 98-100

TEXT: The authors describe a new method of producing rectangular pulses in which two identical coaxial cables are connected to a square pulse generator as shown in Fig.1a. The two lines are connected to a load R_H at the other end. If the impedances are arranged so that $R_H = 2\rho$ and $\rho_1 \gg \rho$, then it is possible to obtain twice the input amplitude across the output load, where ρ is the internal impedance of each of the cables and ρ_1 is the equivalent wave impedance of the line formed by the braiding of cables 1 and 2. Similarly, if there are n cables the output amplitude may be multiplied up by a factor of n. A detailed description is given of the square pulse generator feeding the lines. The apparatus is capable of producing square pulses of 160 kV at 600 A across 250 ohm load or 300 kV across a 2 k ohm load. The pulse lengths are in the range 0.05 to 2 μ sec, the rise times are of the order of

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0.05 μ sec, and the high-frequency damped oscillations on the tail of the pulses are of the order of 10% of the total pulse amplitude. The device has been used by the authors with high-voltage injectors for electron accelerators. There are 4 figures.

SUBMITTED: July 31, 1961

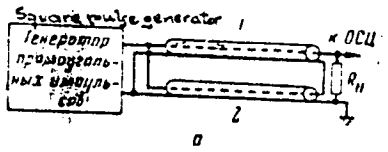

Fig.1a. Basic circuit.

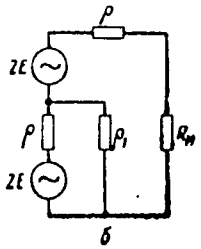

Fig.1b. Equivalent output circuit.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

S/057/63/033/003/021/021
B104/B180

AUTHORS: Pavlovskiy, A. I., Sklizkov, G. V., Kuleshov, G. D., and Gerasimov, A. I.

TITLE: Problem of the dependence of the intensity of a betatron on the injection energy

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 33, no. 3, 1963, 374 - 376

TEXT: The trapping process at energies up to 300 kev was investigated in connection with the possibility of increasing the yields of betatrons and synchrotrons. Measurements were carried out with an iron free betatron whose magnetic field has no phase-nonuniformities and only 0.5 % azimuthal ones. The betatron intensity was measured for injected electron energies between 40 and 380 kev. The trapping process does not depend on W the injection energy. W is linearly dependent on the injection energy up to 120 kev, after which there is a slight deviation from linearity. The deviations are attributed to inadequate emission currents from the injector and to a slight dependence of the maximum intensity on the shape

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B104/B180

Problem of ...

and period of the injection pulse. There is 1 figure.

SUBMITTED: June 7, 1962 (initially)

SUBMITTED: August 23, 1962 (after revision)

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

L 01810-66 EWT(d)/EWT(m)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(z)/EWP(b)/EWP(1)/EWA(c) IJP(c) MJW/JD/HM

ACCESSION NR: AP5020167 UR/0135/65/000/008/0037/0038
621.791.037

AUTHOR: Gerasimov, A. I. (Engineer); Kudasov, B. G. (Engineer); Pavlovskiy, A. I. (Engineer); Tsarev, V. P. (Engineer)

TITLE: Electron gun with high current stability

SOURCE: Svarochnoye proizvodstvo, no. 8, 1965, 37-38

TOPIC TAGS: welding, electron beam welding, welding gun, electron gun, gun cathode, tantalum cathode

ABSTRACT: A new type of electron gun for vacuum electron-beam welding has been developed. This gun is equipped with a disk-shaped tantalum cathode 1 mm thick and 8 mm in diameter, with a system for stabilizing the beam current within ±0.5 mamp. The gun operates with an accelerating voltage of up to 50 kv. At 50 kv a beam current of over 80 mamp can be obtained. At a voltage of 40 kv and a beam current of 110—130 mamp, the beam diameter in the welding plane is 0.5—0.7 mm. Under these conditions the depth of penetration in AMts aluminum alloy is 25 mm at a weld width of 2.5 mm. The use of a cathode made of pure tantalum instead of lanthanum hexaboride extends the service life of the gun and improves its reliability. Orig. art. has: 4 figures. [ND]

Card 1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

L 01810-66

ACCESSION NR: AP5020167

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM, EC

NO REF SOV: 005 OTHER: 000 ATD PRESS: 4086

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

L 24103-65 EWT(m)/EPA(w)-2/EWA(m)-2 Pab-10/Pt-10 IJP(c)

ACCESSION NR: AP5004192 S/0020/65/160/001/0068/0070

AUTHOR: Pavlovskiy, A. I.; Kuleshov, G. D.; Sklizkov, G. V.; Zysin, Yu. A.; Gerasimov, A. I.

TITLE: High-current air-core betatrons 19

B

SOURCE: AN SSSR. Doklady, v. 160, no. 1, 1965, 68-70

TOPIC TAGS: high current betatron, air core betatron, electron accelerator

ABSTRACT: A description is given of pulsed air-core betatrons in which circulating currents of about 90 amp (2×10^{12} accelerated electrons per one cycle of acceleration) at electron energies up to 100 Mev were obtained. To generate an axially symmetric betatron field, an electromagnet consisting of two flat spirals connected by a central solenoid with a gap in its middle part was used. The azimuthal static inhomogeneity of the magnetic field in the plane of the equilibrium orbit did not exceed 0.5%. The relative dimensions of the stability regions in the radial and axial directions were $\Delta r/r_0 \approx 0.7$ and $\Delta z/r_0 \approx 0.6$, respectively. The electromagnets were

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ACCESSION NR: AP5004192

supplied with power from capacitor energy accumulators. The maximum intensity of the magnetic field was limited by the energy of the power supply and the reliability of the electromagnet's structure. The latter limited the intensity of the magnetic field to approximately $2-4 \times 10^4$ oe. The intensity of the field in the region of the central solenoid was, then, $1-2 \times 10^5$ oe. Systems for ensuring radiation pulses with a duration of several hundredths of a microsecond to several tens of microseconds were used to direct the accelerated electron beam to the target. In betatrons with $r_0 \simeq 11.7$ cm a rapid release of electrons was obtained through azimuthal perturbation of the magnetic field by means of a small induction coil. In accelerators with $r_0 \simeq 23.4$ cm, a dual release system was employed which consisted in a preliminary slow change of the radius of the equilibrium orbit and the subsequent fast translation of the electron beam to the target. With this method it is easier to obtain very short radiation pulses with a duration equal to a time of about 10 revolutions of the electrons ($\sim 5 \times 10^{-8}$ sec). In addition, the structure of the beam during translation is maintained. Orig. art. has: 1 figure. [JA]

Card 2/3

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

L 24103-65

ACCESSION NR: AP5004192

ASSOCIATION: none

SUBMITTED: 16Oct64 ENCL: 00 SUB CODE: NP

NO REF SOV: 007 OTHER: 005 ATD PRESS: 3175

Card 3/3

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

L 7085-66 EWT(1) IJP(c)

ACC NR: AP5027837 SOURCE CODE: UR/0020/65/165/001/0065/0068

AUTHOR: Sakharov, A. D. (Academician); Lyudayev, R. Z.; Smirnov, Ye. N.; Plyushchev, Yu. I.; Pavlovskiy, A. I.; Chernyshev, V. K.; Feoktistova, Ye. A.; Zharinov, Ye. I.; Zysin, Yu. A.

ORG: none

TITLE: Production of very high magnetic fields by explosives

SOURCE: AN SSSR. Doklady, v. 165, no. 1, 1965, 65-68

TOPIC TAGS: pulsed magnetic field, flux compression, high field pulse, implosive flux compression, explosive flux compression, betatron particle acceleration, high density plasma, plasma accelerator/ MK 1, MK 2

ABSTRACT: Experiments with the MK-1 and MK-2 explosion devices for the production of very high magnetic field pulses are described. The MK-1 device, which is based on the implosion of an axial flux within a metal shell, essentially resembles the arrangement described by Fowler and others (J. Appl. Phys. 31, 1965, 588). The MK-2, which works on the principle of the expulsion of the field from the solenoid and the subsequent compression of the field by the walls of the coaxial liner, is described here for the first time. Field intensities of 1×10^6 oe were obtained in experiments with an MK-1 using aluminum liners about 100 mm in diameter. In a subsequent experiment with a stainless steel liner with a copper plated inner surface, a field intensity of

Card 1/3 UDC: 538.4

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

L 7085-66

ACC NR: AP5027837

25 x 10^6 oe was achieved by imploding the liner to a 4-mm diameter. A field intensity of 5 x 10^6 oe in a volume of 100 cm^3 was produced by a copper liner 300 mm in diameter, using the MK-2 as the source of the initial field. The MK-2 has a central conductive cylinder enclosed in a coaxial helical solenoid. On one end of the solenoid is a solid cup. A hole in the bottom of the cup holds the end of the central cylinder (see Fig. 1). The central cylinder is filled with an explosive which is ignited from the

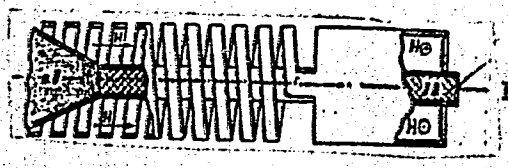

Fig. 1. The MK-2 device

end opposite that holding the cup. The solenoid cylinder system forms the circuit through which a battery of capacitances is discharged. At the peak value of the discharge current, the expanding conical flare of the cylinder created by the propagating explosion touches the end of the solenoid. The explosion's further development is equivalent to moving a cone into the solenoid and shorting its turns until the cone reaches the cup. At this moment a coaxial is formed whose length and inductance grow smaller as the detonation propagates further along the cylinder. The process is accompanied by a corresponding increase in current and field intensity resulting from compression of the flux. Currents of 5 x 10^7 amp (occasionally up to 1 x 10^8 amp) at an inductance value of 0.01 μH were obtained, and field intensities of 1 to

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L 7085-66

ACC NR: AP5027837

1.5×10^6 oe were recorded within a volume of several liters. An energy of 1 to 2×10^7 J was stored in the field, which amounts to about 10 to 20% of the energy released during the propagation of the explosion within the length of the cup. A receiver of electromagnetic energy was connected to the MK-2 directly or via a transformer, depending on whether the receiver was of low or high inductance. About 50% of the explosive energy was transferred to the receiver by the latter method, which also permits a spatial separation of the sender and makes possible multi-stage arrangements. In the first stage, the initial field is created by a permanent magnet. The second and the subsequent stages amplify the field received from the preceding stage. Energy transfer was also accomplished by breaking the current-carrying circuit by means of an additional explosive charge and using the breaking surge for the transfer. More than 50% of MK-2 output was transferred by this method. A special MK device has been created for iron-free air core betatrons as described by Pavlovskiy and others (DAN, 160, no. 1, 1965, 68), and experiments have been carried out with electrodynamic accelerators of the coaxial type. Orig. art. has: 3 figures. [FP]

SUB CODE: EM, NP/ SUBM DATE: 23Aug65/ ORIG REF: 002/ OTH REF: 001/ ATD PRESS: 4143

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

L 33404-66 EWT(1) IJP(c) AT

ACC NR: AP6015319 (A,N) SOURCE CODE: UR/0057/66/036/005/0958/0960

AUTHOR: Bosanykin, V. S.; Pavlovskiy, A. I.

ORG: none

70
B

TITLE: On the possibility of compensating the space charge of pulsed electron beams

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 5, 1966, 958-960

TOPIC TAGS: electron beam, space charge, positive ion, gas ionization, gas pressure

ABSTRACT: The effect of residual gas pressure on the passage of a pulsed electron beam through a metallic tube has been investigated with the apparatus diagrammed in the figure. The electron gun was activated with a 300 kV pulse with a short rise time and an approximately exponential decay with a half time of 12 μsec. The beam was collimated with the system of several 5 mm diameter apertures. At the output of the collimator the current density was 5 A/cm^2 and the angular spread of the beam was 5°. The internal diameter of the 50 cm long metal tube 3 was 5 mm. The current to the collector 5 was recorded with an oscilloscope and was investigated as a function of the residual gas pressure (varied from 2 x 10^{-5} to 2 x 10^{-2} mm Hg) and the potential on the grid 2. When the foil 4

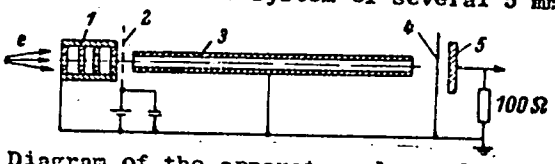

Diagram of the apparatus. 1 - collimator; 2 - grid; 3 - metallic tube; 4 - foil; 5 - collector.

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ACC NR: AP6015319

was absent and the grid was at ground potential the current to the collector was small and independent of the residual gas pressure. When a positive potential was applied to the grid the collector current increased with increasing residual gas pressure. When the grid was 200 V positive the collector current was 10 times greater at a residual gas pressure of 2×10^{-2} mm Hg than at high vacuum or with the grid grounded. Similar behavior was observed when the 10 micron aluminum foil 4 was in place. The observed effects are ascribed to compensation of the space charge of the beam by positive ions of the residual gas. It is suggested that the effect of the positively charged grid 2 is to prevent escape of positive ions from the interior of the metallic tube 3. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 29Jul65/ ORIG REF: 001/ OTH REF: 004

Card 2/2 JS

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A. F.

A course in heating and ventilation. 5. izd., ispr. i dop. Moskva, Gos. izd-vo, 1923-
(53-56684)

TH7222.P38

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N.

Safety measures in working with a mercury flowmeter. Izm. tekh. no.5:61 My '65. (MIRA 18:8)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N., KIVILIS, S.S., red.; KONDRAT'YEVA, M.A., tekhn. red.

[Instruments for quantity measurements of liquid petroleum products and techniques for checking their accuracy] Pribory dlia izmereniia kolichestva zhidkikh nefteproduktov i tekhnika ikh poverki. Moskva, Gos. izd-vo standartov "Standartgiz," 1957. 148 p. (MIRA 11:10)
(Petroleum products) (Flowmeters)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N.

Testing of rotary gas meters after repairing and under operating conditions. Izm.tekh. no.2:54-56 F '63. (MIRA 16:2)
(Gas meters--Testing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N.

Measuring tanks of testing units for volumetric liquid meters. (MIRA 14:5)
Izm.tekh. no.5:53-56 My '61.
(Flow meters—Testing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N.

Automatic staurater and dispenser of carbonated water. Izm.tekh. no.6:50-53 Je '61. (MIRA 14:5)
(Carbonated beverages—Equipment and supplies)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N.

Testing flowmeters for industrial liquids under operating conditions. (MIRA 18:8)
Izm.tekh. no.6:49-53 Je '65.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N.

Using flowmeters in checking tank trucks. Izm.tekh. no.4:43-44 Ap '62. (MIRA 15:4)

(Tank trucks) (Flowmeters)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N., red.

[Instruktsiia 22-56 po poverke gazoschetchikov i ispytatel'nykh ustanovok dlia nikh. Izd. ofitsial'noe. Moskva, 1956. 43 p.

1. Russia(1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh ustanovok dlia nikh.
(Gas meters--Testing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N., red.; KUZNETSOVA, M.I., red. izd-va; MATVEYEVA, A.Ye., tekhn. red.

[Instructions 20-56 for checking water meters and equipment for testing them] Instruktsiia 20-56 po poverke vodoschetchikov i ispytatel'nykh ustanovok dlia nikh. Izd. ofitsial'noe. Moskva, 1957. 28 p. (MIRA 14:5)

1. Russia (1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.

(Water meters--Testing)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N., red.; KUZNETSOVA, M.I., red. izd-va; MATVEYEVA, A.Ye., tekhn. red.

[Instructions 29-57 for checking sirup dosers] Instruktsiia 29-57 po poverke dozatorov siropa. Izd. ofitsial'noe. Moskva, 1958 . 6 p. (MIRA 14:5)

1. Russia (1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.
(Dispensing apparatus--Testing)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

7

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BOOK EXPLOITATION

Baysh, L. G.; Brusteyn, L. I.; Voskresenskiy, V. N.; Makulov, G. Z.; Mirzabekov, G. G.; Nesmelov, S. V.; Nemirovskiy, A. B.; Pavlovskiy, A. N.; Shendler, YU. I.

Devices for control of pressure, outlay and quantity of material, level, temperature. Secondary devices and multiple control machinery. v2 (Pribory* kontrolya davleniya, raskhoda i kolichestva veshchestva, urovnya, temperatury*. Vtorichny*ye pribory* i mashiny* mnozhestvennogo kontrolya. Kn. 2), Moscow, "Nedra", 1964, 870 p. illus., biblio., index. Errata slip inserted. 5,300 copies printed.

TOPIC TAGS: pressure measurement, manometer, diffmanometer, flowmeter, level measurement, temperature measurment, t-ermocouple, thermal expansion, electrical resistance thermometer, current ratio measurement, electronic computer

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SUB CODE: EE, FP SUBMITTED: 30Oct63 NR REF SOV: 045

OTHER: 007 DATE ACQ: 06Apr64

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N.

Accuracy in measuring the amount of alcohol present. Spirt.prom. 26 no.6:16-18 '60. (MIRA 13:11)
(Alcoholometry)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

ALEKSANDROV, A.M.; ALEKSEYEV, T.S.; KONSTANTINOV, N.N.; PAVLOVSKIY, A.N.; LOSHAK, V.I.; SARAYEV, V.P.; YEFREMOVA, T.D., vedushchiy red.; POLOSINA, A.S., tekhn. red.

[Computing volumes of petroleum products; manual for technical personnel of tank farms] Kolichestvennyi uchet nefteproduktov; rukovodstvo dlia tekhnicheskogo personala nefteskladov. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 330 p. (MIRA 11:8)

(Petroleum products)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N.

AUTHOR: None Given 28-58-1-34/34

TITLE: New Handbooks of State Standards (Novyye sborniki gosudarstvennykh standartov)

PERIODICAL: Standartizatsiya, 1958, # 1, pp 83-84 (USSR)

ABSTRACT: This is a list of handbooks of standards published by "Standartgiz" in 1957 for the following items: bolts; wire nails; non-ferrous metal scrap and offal; rules for treatment of technical drawings; cotton and linen fabrics and piece goods; prophylactic medicaments, sanitation goods, vitamin preparations; organic and inorganic reagents and preparations for laboratories, (3 handbooks).

Listed also are 2 handbooks with their originators: "Devices for Measuring the Quantity of Liquid Petroleum Products, and the Techniques of Checking Thereof", by A.N. Pavlovskiy; and "Tables for Determining the Content of Ethyl Alcohol in Water-Alcohol Solutions at T +20° C", drawn up by the Komitet standartov, mer i izmeritel'nykh priborov (Committee of Standards, Measures and Measuring Devices) of the USSR Council of Ministers.

AVAILABLE: Library of Congress

Card 1/1

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

Pavlovskiy, A.N.

ZHDANOV,V.M., redaktor; BEKLEMISHEV,V.N., redaktor; BILIBIN,A.F., redaktor; VYGODCHIKOV,G.V., redaktor; DOBROKHOTOVA,A.I., redaktor; ZHUKOV-VEREZHNIKOV,N.N., redaktor; ZDRODOVSKIY,A.I., redaktor; KASHKIN,P.N., redaktor; KRICHEVSKIY,A.M., redaktor; PAVLOVSKIY,A.N., redaktor; POD"YAPOL'SKAYA,V.P., redaktor; POPOV,I.S., redaktor; RUDNEV,G.P., redaktor; SKRYABIN,K.I.,redaktor TIMAKOV,V.D., redaktor; BUNIN,K.V., redaktor; ZAKSTEL'SKAYA, L.Ya., redaktor; SACHEVA,A.I., tekhnicheskiy redaktor

[Contagious diseases in man; academic reference book] Zaraznye bolezni cheloveka; akademicheskii spravochnik. Moskva, Gos.izd-vo meditsinskoi lit-ry, 1955. 681 p. (MLRA 9:3)

1. Akademiya meditsinskikh nauk SSSR, Moscow.
(CONTAGION AND CONTAGIOUS DISEASES)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N.

Checking the model-367 oil dispenser. Izm.tekh.no.1:61-63 Ja-F '57. (MIRA 10:4)

(Oil-feeders)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.N.

Universal standard measuring tank of the first class. Izm. tekh. no.1:55 Ja '64. (MIRA 17:1)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.E.

[Measuring consumption and quantity of liquids, gases and steam] Izmerenie raskhoda i kolichestva zhidkostei gazov i para. Moskva, Gos. nauchno-tekhnicheskoe izd-vo mashinostroitel'noi lit-ry, 1951. 334 p. (MLRA 7:3)

(Measuring instruments) (Flowmeters)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

S/115/62/000/004/007/007
E194/E154

AUTHOR: Pavlovskiy, A.N.

TITLE: Calibration of road tankers by liquid flow meters

PERIODICAL: Izmeritel'naya tekhnika, no.4, 1962, 43-44

TEXT: Road tankers are usually calibrated by weighing or volume measurement but calibration to within ± 0.5% may also be carried out by means of a liquid flow meter. Twenty years of experience show that this is a convenient method and comparable in accuracy with volumetric calibrations. The error of a liquid flow meter depends on the flow rate and alters in service, so a readily available method of checking the flow meter must be provided. In practice, a flow meter type СВШ-$5\frac{16}{40}$ (SVSh-$5\frac{16}{40}$) is checked by utilizing filtered water from town supply. The incoming water pressure is measured by a pressure gauge and the equipment is first used to fill a standard liquid measure of 200 litres. Having checked the flow meter calibration in this way, the tanker is filled, the flow meter

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

Calibration of road tankers ... S/115/62/000/004/007/007
E194/E154

calibration being assumed unchanged unless the pressure gauge reading alters.
There are 2 figures.

Card 2/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, A.P.

3. PMK

Use of Gamma-Rays for Testing Castings and Welded Joints at the Kuznetsk Metallurgical Combine. V. V. Ivanov and A. P. Pavlovskii. (*Zavodskaya Laboratoriya*, 1956, 21, (11), 1353–1356). [In Russian]. After extensive trials in 1951 gamma-ray defectoscopy was widely adopted at the Kuznetsk combine for testing steel castings, welds and works equipment, and the accumulated experience is reviewed in this article. It has been found that for thicknesses of 5–200 mm defects whose size is 3–5 % of the thickness are satisfactorily revealed. The sensitivity when irradiating welds and articles up to 80 mm thick is greater with ^{60}Co than with ^{192}Ir as the source. The gamma-ray testing laboratory and equipment are briefly described.—S. K.

PMK

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

STEPANOV, Yevgeniy Petrovich; PAVLOVSKIY, A.Ya., red.; KLIMOVA, Z.I., tekhn. red.

[In the Volga Delta]V del'te Volgi. Astrakhan', Izd-vo gazety "Volga," 1961. 68 p. (MIRA 16:2)
(Volga Delta—Description and travel)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

LETICHEVSKIY, Mark Aronovich; PAVLOVSKIY, A.Ya., red.; KLIMOVA, Z.I., tekhn. red.

[Reproduction of the stock of commercial fishes in the Volga-Caspian Sea region] Vosproizvodstvo zapasov promyslovykh ryb Volgo-Kaspiia. Astrakhan', Izd-vo "Volga," 1963. 27 p. (MIRA 17:2)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

RUDENKO, Yevgeniy Ivanovich; VEPRINTSEV, I.I., kand. med. na..., dots., nauchn. red.; PAVLOVSKIY, A.Ya., red.

[Do you know yourself?] Znaesh' li ty sebia? 2. izd. Astrakhan', Volga, 19[illegible]3. 291 p. (MIRA 18:2)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

SOV/ 84-58-3-23/52

AUTHOR: Pavlovskiy, B., Candidate of Technical Sciences

TITLE: The Il-18 Airliner - Pressurizing Installation (Samolet Il-18 - Vysotnoye oborudovaniye)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 3, pp 19-20 (USSR)

ABSTRACT: The article gives a general description of the pressurizing system and contains the following technical data. The pressure in the passenger compartments at altitudes up to 5,000 m is kept equal to that on the ground; at 10 km altitude the cabin pressure is equal to that of the ambient pressure at 2,45 km altitude. The maximum excess pressure in the Il-18 at altitudes from 5.5 to 10 km is kept constant at .5 atm. This creates a load upon the fuselage hull up to 5 tons per square meter. Supercharging, heating and ventilation are carried out by a steady air flow from the engine compressors, which compress the air up to 7 atm. There are two pressure regulators, located in the front and rear parts of the fuselage. Escape valves take over in case of the failure of the regulators, letting out excess pressure exceeding .5 atm. The pressure at the inlet to the system does not exceed 3.5 atm, while in the heating line it is only 1.45 atm. The air enters the cabins at a slight overpressure of .04 to .1 atm. which is necessary for overcoming the resistance of distributing devices.

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The rate of air supply to the cabins is about 2.5 to 3 tons per hour, or about 40 kg per passenger per hour, which makes the air change 20 times during the same period. The amount of supplied air in terms of weight is controlled by special devices. The air is supplied by all four engines. Air supply is controlled by so-called sonic nozzles, in which air is brought up to the sonic speed and which ensure constant flow during the climb. The proper functioning of the air conditioning installation is ensured by a system of check valves and control instruments, as well as by interconnection of ducts from all four engines. The compensators for linear changes due to changes in temperature have an original design and are at present undergoing tests for repetitive load. The airtightness of the ducts is retained even in case of the destruction of the compensating elements. The incoming air temperatures for different purposes are as follows: for heating 40 to 80 C°, for cooling 10 to 15 C°, for ventilation 15 to 20 C°, for windshield defrosting 60 to 80 C°. A system of cabin thermostats and tele-thermometers ensures an automatic control of temperatures in the cabins as well as in the ducts. There are individual ventilation outlets for each seat. Turbo-airconditioners cool the cabins during the hot season. Expansion turbines, with 3.5 atm input pressure and about triple expansion, will

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The Il-18 Airliner (Cont.)

SOV/84-58-3-28/52

reduce the air temperature by 35 to 45 C°. The change from heating to cooling and vice verse is automatic. The system also provides for humidifying the air. Besides the automatic control system of the micro-climate, there is a manual control system operated from the crew cabin. A diagram of altitude and cabin pressure relationship accompanies the text.

1. Pressurized cabins--Design
2. Airplane cabins--Pressure distribution
3. Air compressors--Operation
4. Pressure regulators--Applications

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PAVLOVSKIY, B.; YELIZAROV, A.

More authority for work norm experts on drilling sites.
Sots.trud 4 no.7:132 Jl '59. (MIRA 13:4)

1. Nachal'nik otdela truda i zarplaty tresta "Stalingradneftegazrazvedka" (for Pavlovskiy). 2. Starshiy inzhener otdela truda i zarplaty tresta "Stalingradneftegazrazvedka" (for Yelizarov).
(Oil well drilling--Production standards)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, B.

[Stone cutting in the Urals] Kamenoreznoe iskusstvo Urala. [Sverdlovsk] Sverdlovskoe knizhnoe izd-vo, 1953. 150 p. (MIRA 11:4)

(Ural Mountain region--Stone cutting)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

ACC NR: AP6034324

SOURCE CODE: UR/0317/66/000/010/0046/0047

AUTHOR: Pavlovski, B. (Engineer; Lieutenant colonel; Polish Army)

ORG: none

TITLE: With the force of an explosion [Blasting used in preparing fortifications]

SOURCE: Tekhnika i vooruzheniye, no. 10, 1966, 46-47

TOPIC TAGS: fortification, explosive, explosive charge, chemical explosion

ABSTRACT: This article describes the techniques and equipment used in blasting trenches for fortified structures and equipment shelters. Included are detailed instructions for placing and detonating explosive charges. Using this technique, it is estimated that on the average a tank shelter can be prepared in 1 1/2 hr, and that one for a ZIL-151 truck can be readied in 2 1/2 hr. Orig. art. has: 2 figures.

SUB CODE: 19,13/ SUBM DATE: none

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PHASE I BOOK EXPLOITATION SOV/5410

Tashkentskaya konferentsiya po mirnomu ispol'zovaniyu atomnoy [illegible] Tashkent, 1959.

Trudy (Transactions of the Tashkent Conference on the Peaceful [illegible] of Atomic Energy) v. 2. Tashkent, Izd-vo AN UzSSR, 1960. [illegible] p. Errata slip inserted. 1,500 copies printed.

Sponsoring Agency: Akademiya nauk Uzbekskoy SSR.

Ed.: S. V. Starodubtsev, Academician, Academy of Sciences Uzbek SSR. Editorial Board: A. A. Abdullayev, Candidate of Physics and Mathematics; D. M. Abdurasulov, Doctor of Medical Sciences; U. A. Arifov, Academician, Academy of Sciences Uzbek SSR; A. A. Borodulina, Candidate of Biological Sciences; V. N. Ivashev; G. S. [illegible]; A. Ye. [illegible]; Ye. [illegible], Candidate of Physics and Mathematics; A. I. Nikolayev, Candidate of Medical Sciences; D. Tishanov, Candidate of Chemical Sciences; A. S. Sadykov, Corresponding Member, Academy of Sciences USSR, Academician, Academy of Sciences Uzbek SSR; [illegible] N. Tilanin,

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Candidate of Physics and Mathematics; Ya. Kh. Turakulov, Doctor of Biological Sciences. Ed.: R. I. Khamidov; Tech. Ed.: A. G. Babakhanova.

PURPOSE : The publication is intended for scientific workers and specialists employed in enterprises where radioactive isotopes and nuclear radiation are used for research in chemical, geological, and technological fields.

COVERAGE: This collection of 133 articles represents the second volume of the Transactions of the Tashkent Conference on the Peaceful Uses of Atomic Energy. The individual articles deal with a wide range of problems in the field of nuclear radiation, including: production and chemical analysis of radioactive isotopes; investigation of the kinetics of chemical reactions by means of isotopes; application of spectral analysis for the manufacturing of radioactive preparations; radioactive methods for determining the content of elements in the rocks; and an analysis of methods for obtaining pure substances. Certain

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instruments used, such as automatic regulators, flowmeters, level gauges, and high-sensitivity gamma-relays, are described. No personalities are mentioned. References follow individual articles.

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Uklonskiy, A. S. [Institut geologii AN UzSSR - Institute of Geology AS UzSSR]. Geochemical Significance of Isobars and Isotones of Stable Isotopes 226

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Churayev, N. V. [Moscow Peat Institute]. Investigation of Water Properties, Structure, and Processes of Moisture Transfer in Peat Using Tracer Atoms 243

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L 61699-65 EWT(m)/EWA(d)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) Pf-4 MJW/JD/WW

ACCESSION NR: AR5012848 UR/0137/65/000/003/D029/D029

SOURCE: Ref. zh. Metallurgiya, Abs. 3D202

AUTHOR: Plyatskovskiy, O. A.; Yuferov, V. M.; Pavlovskiy, B. G.; Vorona, N. M.; Lezinskaya, Ye. Ya.

TITLE: Production of tubes from EP27 steel

CITED SOURCE: Sb. Proiz-vo trub. Vyp. 13. M., Metallurgiya, 1964, 5-8

TOPIC TAGS: metal tube, steel, temperature interval, hot rolling, billet, metal ductility, heat treatment, cold working/ EP27 steel

TRANSLATION: It has been established as the result of an investigation that the optimum temperature interval for the hot rolling of tubes of EP27 steel lies within the limits of 1150-1180°. In heating the tube shaped billets, it is necessary to take into account the heating up of the metal in the broaching operation. Hot rolled tubes of EP27 steel have a sufficient reserve of ductility for further cold working without special heat treatment. The intermediate and final heat treatment of the EP27 steel tubes should be carried out by heating them to 1050-1100° with a holding time at this temperature depending on their wall thickness, and by

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subsequent cooling in air. N. Yudina.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PLYATSKOVSKIY, O.A., kand.tekhn.nauk; PAVLOVSKIY, B.G., inzh.; KARPENKO, L.N., inzh.; STAROBINETS, Ya.S.

Investigating the reeling of thick-walled cylinders. Stal' 21 no.2:147-151 F '61. (MIRA 14:3)

1. Ukrainskiy nauchno-issledovatel'skiy trubnyy institut i Chelyabinskiy truboprokatnyy zavod.

(Rolling(Metalwork))

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L 30055-65 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(k)/EWP(b) Pf-4 MJW/JD/HW

ACCESSION NR: AP5002974 S/0133/65/000/001/0049/0052

AUTHOR: Plyatskovskiy, O. A. (Doctor of technical sciences); Yuferov, V. M. (Candidate of technical sciences); Pavlovskiy, B. G. (Engineer); Vorona, V. M. (Engineer); Lezinskaya, Ye. Ya. (Engineer); Vovsina, A. D. (Engineer); Chemerinskaya, R. I. (Engineer); Karpenko, V. B. (Engineer); Kukarskikh, V. N. (Engineer)

TITLE: Mastering the production of 1Kh15N9S3B steel pipe

SOURCE: Stal', no. 1, 1965, 49-52

TOPIC TAGS: steel pipe, pipe rolling, austenite steel, martensite steel, stainless steel, stainless steel pipe, steel phase transformation / steel 1Kh15N9S3B

ABSTRACT: Phase transformations of austenite into martensite in 1Kh15N9S3B stainless steel during cold deformation has been taken into consideration in developing the technology of hot-and cold-rolled pipes. The martensite point M_d for the deformation of this steel lies around 150C and the range of reversal from martensite to austenite is between 500 and 700C. Mass production of thinwalled 1Kh15N9S3B steel pipe is quite possible if the raw material is free of nonmetallic impurities (nitrides and carbonitrides). The above steel type (=EP302) differs from 1Kh18N10T by having a 3% lower Cr content substituted by 3% Si. It shows interesting proper-

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ACCESSION NR: AP5002974

ties: thus, its ductility changes during hot deformation and the breakdown of unstable austenite into martensite takes place during cold deformation. Tests on the hot rolling of forged 90 mm diameter billets are described in great detail. Great accumulations of nitrides were observed. Cut-out samples were subjected to tensile strength tests at various temperatures and the content of the ferro-magnetic alpha-phase was determined. On the basis of these tests, the following procedure was recommended: first passes of cold rolling are to be done at 150C. Ready pipes are heat treated at 1050-1100C. This steel has a tendency to be hardened considerably by cold working but heat treatment later removes this hardness nearly completely. Despite martensite formation, cold rolling was satisfactory up to 60% deformation. Cold drawing was also satisfactory except for cracks where there was considerable accumulation of nitride impurities. "G. N. Syusin and B. N. Kuznetsov participated in the work." Orig. art. has: 6 figures and 2 tables.

ASSOCIATION: VNITI; Novotrubnyy zavod ("Novotrubnyy" plant)

SUBMITTED: 00 ENCL: 00 SUB CODE: MM

NO REF SOV: 000 OTHER: 000

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

S/133/61/000/002/006/014
A054/A033

AUTHORS: Plyatskovskiy, O. A.; Candidate of Technical Sciences; Pavlovskiy, B.G, Engineer; Karpenko, L. N., Engineer; Starobinets, Ya. S., Engineer

TITLE: The Rolling of Thick-Walled Hollow Billets in Stretch-Reducing Mills

PERIODICAL: Stal', 1961, No. 2, pp. 147 - 151

TEXT: After replacing the piercing units of pilger mills by piercing presses and stretch-reducing mills, the pilger-process became the most economic method for medium and large diameter tube-production. To determine the power and other parameters necessary to design the old type pilger mills and to design new equipment, the UkrNITI and the Chelyabinskiy truboprokatnyy zavod (Chelyabinsk Tube-rolling Plant) made a study of the operation of the piercing unit of the ЧТПЗ (ChTPZ) type pilger equipment. The conventional tube rolling tool of the piercing unit was replaced by working and guide rolls of new design, (Figure 1). Diameter of the working rolls: 730 mm; diameter of the guide rolls: 440 mm; incline angle of the forming cone:

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The Rolling of Thick-Walled Hollow Billets in Stretch-Reducing Mills

$3^{o}30'$; angle of feed: 4°; dimensions of mandrels: L = 487 and 530 mm R_1: 330 and 380 mm; A = 267 and 310 mm. The hollow billets processed in the stretch-reducing mills had the following dimensions:

576 x 350 x 1600 mm
572 x 300 x 1500 mm
636 x 390 x 1500 mm.

To investigate the laws of changing wall-thickness during the rolling-out process some billets were bored in such a way, that their axis was displaced in relation to the center of the machine. As a result of this billets were obtained with wall-thichnesses deviating by 25%. The torsion during rolling was determined by longitudinal grooves (15 mm wide, 10 mm deep) made in the billets. The metal flow was observed by fitting in holes drilled into the billet walls 20X (20Kh) type steel screws and welding them at the contact places on to the external surface. The metal pressure on the working roll

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and mandrel rod, the torque on the engine axis were registered by several pickups. The oscillograph indicating the torque also registered the current intensity of the engine, and a special device indicated the rotation speed of the rolls. The actual volocity of axial displacement of the billet was measured by the path covered by the front part of the billet during a given time, while the focus of deformation was filled in with metal. The tangential velocity was defined by the recorded rotation number of the front and rear part of the billet. When calculating the coefficients of tangential slip, the theoretical speed of tangential displacement of the billet, V_t, was determined with the formula:

$$V_t = \frac{\pi D_x n}{06} \sqrt{\cos^2\alpha \cos^2 \omega + \sin^2 \omega}$$

(D_x = roll diameter in the sector investigated, in mm, n = roll rotation speed, rpm; α = feed angle, °; ω = angle (°) formed by the horizontal plane passing through the axis of the roll in the given roll-section and by the straight line passing at the same time through the center of the given section and the assumed point of application of the vector of peripheral speed

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The Rolling of Thick-Walled Hollow Billets in Stretch-Reducing Mills

of the roll. Part of the billets (dimensions 576x350 and 572x300 mm) were heated up to 1250°C and rolled into tube blanks of 478x330 mm with thinner walls, while the 636x390 mm billets were rolled on the same rolls into 558x 386 mm tube blanks. The study of the longitudinal sections of billets, braked in the deformation focus and curves of changes in the wall thickness along the deformation focus show that maximum deformation takes place between the flange (30 mm high) of the roll and the mandrel. The change in wall-thickness during rolling was indicated by the change in the transversal rings carved into the billets along their entir length and it was observed that for billets, the wall-thickness of which varied between 17 and 25%, the wall-thickness was reduced about 1.5-2.0 times. However, rolling billets, with a wall-thickness not changing more than 8-10%, - showed no modification in this respect. The main deformations of the circular screws fixed in the billet walls took place during processing in the stretching-reducing mill in axial direction with a simultaneous torsion in tangential direction. The peripheral layers flow more quickly in these directions than the internal ones. This

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also went to show the inequality of deformation of the hollow billet wall-thickness. The angle of pitch of the torsional line varied between 12 and 36°, indicating the irregularity of the process in time. For the coefficients of axial and tangential slip the following values were obtained:

Dimensions of the initial and the rolled tube blank (mm)	576x350 / 478x330	572x300 / 478x330	636x390 / 558x386
Elongation coefficient	1.75	2.0	1.55
Average values of the coefficient of axial slip	0.45-0.55		0.47-0.56
and of tangential slip			
at the input section of the roll	1.10	1.075	1.074
at the center of the flange	1.03	0.948	0.830
at the output	0.94	0.853	0.797

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The Rolling of Thick-Walled Hollow Billets in Stretch-Reducing Mills

The power coefficients of elongation and piercing showed that it was possible to apply the piercing units of pilger mills to double-roll stretch-reducing (elongating) mills. Both processes were characterized by the increase in the ratio of metal pressure on the roll at the input side of the roll to the metal pressure at the output. There are 3 figures and 3 tables.

ASSOCIATION: UkrNITI and Chelyabinskiy truboprokatnyy zavod (Chelyabinsk Tube-rolling Plant)

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The Rolling of Thick-Walled Hollow Billets in Stretch-Reducing Mills

Fig. 1

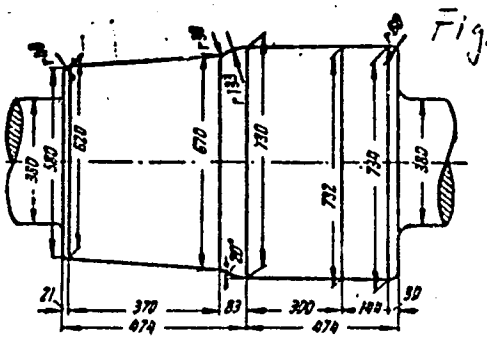

Figure 1

Calibration of the working roll of the stretch-reducing mill

Fig. 2

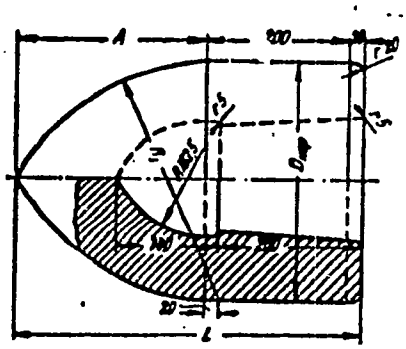

Figure 2

Calibration of the mandrel of the stretch-reducing mill

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The Rolling of Thick-Walled Hollow Billets in Stretch-Reducing Mills

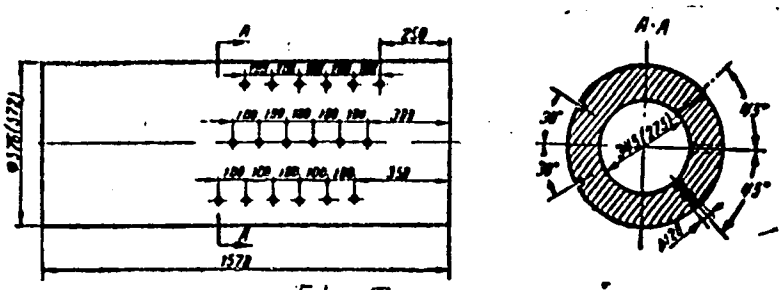

Fig. 3

Figure 3

Arrangement of screws in the billet-wall before rolling on the stretch-reducing mill

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The Rolling of Thick-Walled Hollow Billets in Stretch-Reducing Mills

Figure 5

Change of the wall-thickness of the billet, rotarded in the stretch-reducing mill

wall-thickness, mm

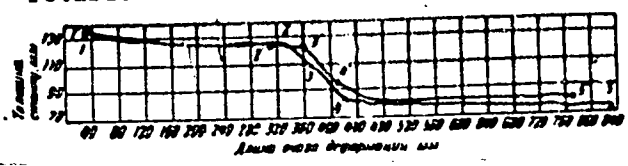

Fig. 5

length of the deformation focus, mm

1-2 (1'-2')-working sectors of the entering cone
2-3 (2'-3')-idem, of the flange, without mandrel
3-4 (3'-4')-idem, for flange and mandrel
4-5 (4'-5')-idem, for the polishing sector of roll and mandrel

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The Rolling of Thick-Walled Hollow Billets in Stretch-Reducing Mills

A Показатели	B Размеры слитка (числители) и получаемой гильзы (знаменатели), мм				
	385×370 / 385×230	490×475 / 500×375	547×531 / 550×390	615×600 / 620×435	628×100* / 638×435
1 Коэффициент вытяжки	1,48	1,75	2,0	1,9	1,87
2 Диаметр оправки, мм	220	325	375	425	425
3 Скорость вращения валков, об/мин.	34,0	31,5	28,5	27,5	27,5
4 Температура металла, °C	1130	1130	1140	1130	1130
5 Среднее давление металла на валки, т:					
$P_{вх}$ максимальное	150	155	170	240	165
$P_{вых}$ максимальное	168	150	120	110	138
$P_в$:					
максимальное	318	305	290	350	303
среднеквадратичное	223	229	213	219	205
$P_{вх} : P_{вых}$	0,90	1,05	1,53	1,63	1,20
6 Среднее максимальное давление на оправку, т	—	46	60	54	44
7 Средний крутящий момент на валу двигателя, тм:					
максимальный	23,5	42,5	41,0	53,5	38,0
среднеквадратичный	14,5	21,6	25,0	26,0	25,0
8 Средняя расходуемая мощность, квт:					
максимальная	1945	3430	3000	3810	2550
среднеквадратичная	1150	1820	1785	1750	1750

Card 10/12

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S/133/61/000/002/006/014
A054/A033

The Rolling of Thick-Walled Hollow Billets in Stretch-Reducing Mills

Table 3:

Characteristics of the process of piercing on the piercing mill ChTPZ (roll diameter: 730 mm)

A - Indices,
B - Billet dimensions and the dimensions of the tube blank formed, mm (numerator/denominator);

1 - Elongation coefficient;
2 - Mandrel diameter, mm;
3 - Rotation speed of rolls, rpm;
4 - Metal-temperature, °C;
5 - Average pressure of metal on the roll, t: P_{in}maximum, P_{out}maximum, P: maximum, mean-square;
6 - Average-maximum pressure on mandrel, ton;
7 - Average torque on motor-shaft, tm: maximum, mean-square;
8 - Average power consumption, kwh: maximum, mean-square;
9 - Average coefficient of slip: axial, at output; tangential: at input,

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S/133/61/000/002/006/014
A054/A033

The Rolling of Thick-Walled Hollow Billets in Stretch-Reducing Mills

Table 3: (continued)

at the flange, at the output.

Bored billets.

Abstractor's note: subscript 'in' is the translation of the Russian вх (vkhod), subscript 'out' is the translation of the Russian вых (vykhod)

Table 3 cont.

9 Средние коэффициенты скольжения:					
осевого на выходе	0,78	0,64	0,71	0,64	0,50
тангенциального:					
на входе	1,03	1,028	1,04	1,04	1,00
у пережима	0,91	0,94	0,94	0,98	0,945
на выходе	1,02	1,02	1,05	1,075	1,058

Card 12/12

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PAVLOVSKIY, B.M.; YELIZAROV, A.P.

Results of intracrew planning of rigging maintenance operations. Neft.khoz. 34 no.5:65-67 My '56. (MLRA 9:8)
(Oil wells--Equipment and supplies)

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PAVLOVSKIY, B.V.

PHASE I Treasure Island Bibliographic Report

00000040

BOOK

Call No.: ATIC104325

Authors: PAVLOVSKIY, B.V., and LIBERKHEYN, N.M.

Full Title: SOUNDPROOFING OF AIRCRAFT

Transliterated Title: Zvukoizolyatsiya samoletov

Publishing Data

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Publishing House: State Publishing House of the Defense Industry (Oborongiz)

Date: 1950 No. pp.: 108 No. copies: 2,500

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Editor: Antsyferov, N.S., Bachelor of Science

Technical Editor: None

Editor-in-Chief: None

Appraiser: None

Others: A group of workers headed by Nesterov, Bachelor of Science, completed the study of soundproofing materials.

Shapiro, B.K., Bachelor of Science, headed a group of workers which executed flight tests. The authors directly cooperated in these tests.

Antsyferov, M.S., Bachelor of Science, wrote chapter 1,: "General Information on Technical and Physical Acoustics".

Gratitude is expressed to Rzhevkin, S.N., Professor, for a number of valuable remarks on the manuscript.

1/2

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

Card 2/2

Call No.: ATIC104325 00000040

Full Title: SOUNDPROOFING OF AIRCRAFT

Text Data

Coverage: Combatting noise in aircraft is the theme of this book. The general information on acoustics, indispensable for planning aircraft soundproofing, is included. A method of calculating aircraft soundproofing and the characteristics of special soundproofing materials are given. There is a short description of acoustic testing of individual materials and of ground and airborne aircraft installations.

Purpose: A book for graduate engineers concerned with the problem of aircraft soundproofing. The book has numerous charts, diagrams, and tables.

Facilities: Scientific Research Institute of Physics (NIIF) at the Moscow State University.

No. Russian and Slavic References: 9.

Available: A.I.D., Library of Congress.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, B., kand.tekhn.nauk

High altitude equipment. Grazhd. av. 15 no.3:19-21 Mr '58.
(Airplanes--Equipment and supplies) (MIRA 11:5)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710012-5

PAVLOVSKIY, D.

For effective use of the passenger-carrying fleet. Mor. flot. 25 no. 12:13 D '65. (MIRA 18:12)

1. Nachal'nik sluzhby perevozok i dvizheniya passazhirskogo flota Dal'nevostochnogo parokhodstva.

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