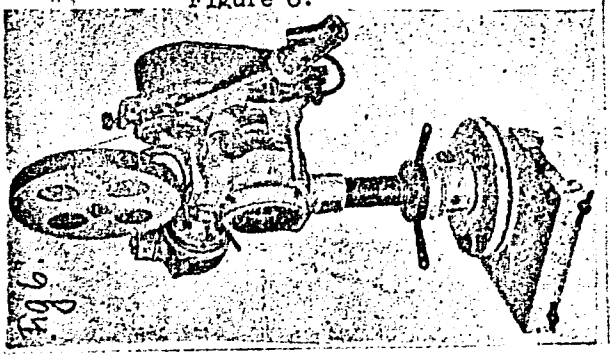
The Achievements of the Science and Technology of Welding into Practice

automatic submerged building-up with plate electrodes, the NIITEKhMASh of the Chelyabinsk Sovnarkhoz exhibited an installation for the submerged building-up with band-shaped powder electrodes. In the field of using arc plasma in welding operations - the plasma being a flow of ionized gas with extremely high temperatures exceeding that of the arc discharge 2 - 3 times - various institutions exhibited new devices and apparatus. Thus the Institut metallurgii AN SSSR (Institute of Metallurgy of the AS of the USSR) showed some plasma heads of the ИМЕТ-105 (IMET-105), ИМЕТ-106 (IMET-106) and other types. The Institute of Electric Welding showed a semi-automatic plasma welding apparatus of the ТС-17 (TS-17MU) type. The VNIIAvtogen exhibited the semi-automatic УДР-58 (UDR-58) apparatus and the РДМ-1-60 (RDM-1-60) mahual cutting torch. Figure 9 shows the ЭЛУ-1 (ELU-1) electron-ray welding apparatus of

Figure 6:



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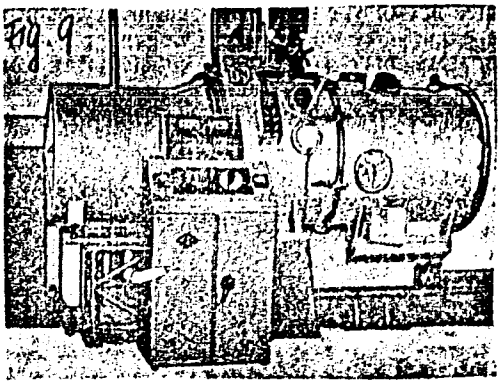
The Achievements of the Science and Technology of Welding into Practice

NIAT design devised for the welding of ring-shaped and straight seams up to 1,000 mm long. The heating source of electron-ray welding is a focused flux of electrons bombarding the welding area and heating it quickly until it melts. A number of ultrasonic spot-welding and seam-selding apparatus were exhibited. The Institute of Metallurgy of the AS of the USSR showed the portable УЗСМ-3 (UZSM-3) ultrasonic welding apparatus for spot- and seam-welding on horizontal and vertical surfaces. The Stalinskiy zavod im. 15-let... LKSMU (Stalino Plant im. 15th Anniversary ... the LKSMU) showed an operating installation for the arc-welding and building-up of steel parts in a steam atmosphere. The VNIIAvtogen showed a number of metal-cutting burners, among others also the СГУ-1 (SGU-1) machine equipped with mechanical (manual), magnetic and photo-electron copying devices. Figure 10 shows the УРХС-4 (URKhS-4) installation,

Figure 9:



The Achievements of the Science and Technology of Welding into Practice

designed by the VNIIAvtogen, for the oxygen-flux cutting of stainless steels.

Figure 10:

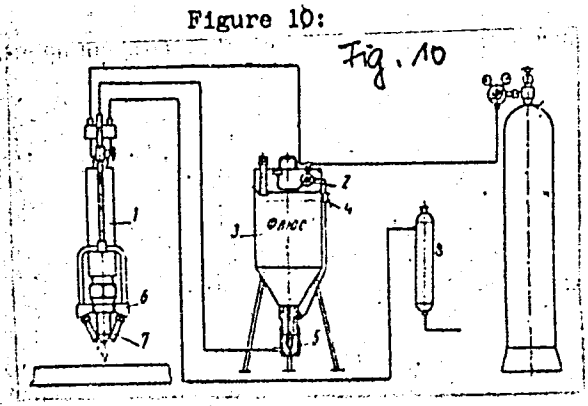


Figure 10:
1 - stem of cutting torch; 2 - oxygen reducer; 3 - flux supply container; 4 - throttle valve; 5 - cyclone chamber; 6 - collar; 7 - powder nozzle.

Iron powder is fed into the hollow of the cutting torch. The powder, burning in the oxygen jet, produces the additional heat necessary for the cutting process. Special attention was paid to the magnetographic ultrasonic МД-9 (MD-9) flaw detector designed by the VnIIST, which was shown at the exhibition. The advantage of this flaw detector is characterized by the possibility of a visual check of defects on the screen of an electron-ray tube, while the defect is fixed photographically. There are 11 figures.

Card 8/8

TYURIN, V.F., inzh.

Welding equipment with programmed control. Svar. proizv. no.2: 38-41 F '61. (MIRA 14:1)
(Welding) (Automatic control)

TYUMEN, V.F., inzh.

Annual conference of welders of Moscow and the Moscow Province on the results of welding research and operations. Svar. proizv. no.8:43-45 Ag '65. (MIRA 18:8)

AKULOV, I.A., kand. tekhn.nauk,dots.; ALEKSEYEV, Ye.K., inzh.; GURARI, M.D., inzh.[deceased]; DMITRIYEV, I.S., kand.tekhn.nauk,dots.; YEVSEYEV, R.Ye., inzh.; ZIL'BERBERG, A.L., inzh.; LIVSHITS, L.S., kand.tekhn.nauk; MEL'NIK, V.I., inzh.; RAZUMOVA, E.D., inzh.; TARAN, V.D., prof., doktor tekhn.nauk; FAL'KEVICH, A.S., kand.tekhn. nauk; TSEGEL'SKIY, V.L., inzh.; CHERNYAK, V.S., inzh.; SHILOVTSEV, D.P., inzh.; ZVEGINTSEVA, K.V., inzh., nauchnyy red.; TYURIN, V.F., inzh.,nauchnyy red.; VOLNYANSKIY,A.K.,glav.red.; SOKOLOV,D.V.,zam. glav.red.; SEREBRENNIKOV,S.S., red.; MIKHAYLOV,K.A.,red.; STAROVEROV, I.G., red.; VOLODIN, V.Ye., red.; NIKOLAYEVSKIY, Ye.Ya.,red.; LYTKINA,L.S.,red.izd-va; PEREVALYUK,M.V.,red. izd-va; RUDAKOVA, N.I., tekhn. red.

[Welding operations in building]Svarochnye raboty v stroitel'stve. Moskva,Gosstroiizdat,1962. 783 p. (MIRA 15:6)
(Welding—Handbooks, manuals, etc.) (Building)

S/135/60/000/006/007/007
A104/A029

AUTHOR: Tyurin, V.F., Graduate Engineer

TITLE: Commemorative Scientific Conference of the 90th Birthday of Ye.O. Paton

PERIODICAL: Svarochnoye proizvodstvo, 1960, No. 6, pp. 45 - 46

TEXT: In the conference held in Kiev on March 3 - 5, over 200 delegates from leading industries and scientific organizations participated. The conference was convened by the Institut elektrosvarki im. Ye.O. Patona AN UkrSSR (Electric Welding Institute im. Ye.O. Paton of the AS of UkrSSR). The Vice-President of the Academy of Sciences of the UkrSSR A.N. Shcherban' welcomed the delegates and Candidate of Technical Sciences A.A. Kazimirov spoke on the outstanding scientific achievements of Ye.O. Paton. Papers were read on the inherent tension of thick metal sheets during welding, its measuring and methods of elimination by heat treatment and relaxation by Corresponding Member of the Academy of Construction and Architecture of the USSR, G.A. Nikolayev; on the problem of rational designing of welded constructions by Doctor of Technical Sciences N.O. Okerblom; on an investigation into wear resistance of welded constructions in the USSR and further

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Commemorative Scientific Conference of the 90th Birthday of Ye.O. Paton

tasks in this field by Candidate of Technical Sciences V.V. Shevernitskiy; on reduction of cost and weight of welded constructions by use of steel sheets by Candidate of Technical Sciences G.V. Rayevskiy; on some problems of automation by Academician of the AS UkrSSR B.Ye. Paton; on ceramic fluxes used in welding and surfacing of low-carbon and low-alloyed steels by Academician of the AS UkrSSR K.K. Khrenov; on new electric slag welding equipment designed by the Electric Welding Institute im. Ye.O. Paton of the AS of UkrSSR by Candidate of Technical Sciences P.I. Sevbo; on physical problems of metal welding and new heating sources by Corresponding Member of the AS of USSR N.N. Rykalin; on important questions of welding of non-ferrous metals (aluminum, copper and titanium) and some refractory and chemically active metals by Candidate of Technical Sciences D.M. Rabkin; on applicability of the similitude theory by physical simulation for determining of contact welding operational data by Candidate of Technical Sciences V.K. Lebedev; on fine structure of low-carbon steel welded seams by Candidate of Technical Sciences B.S. Kasatkin; on investigations into the origin, composition and properties of crystals in cast alloys by B.A. Movchan; on detailed analysis of the performance of welded austenitic steam-pipe joints by Doctor of Technical

Commemorative Scientific Conference of the 90th Birthday of Ye.O. Paton

Sciences K.V. Lyubavskiy; on problems of highly-resistant steel welding by Candidate of Technical Sciences A.M. Makar; on metallurgical processes in molten-metal pool during flux-shielded welding by I.I. Frumina; on welding of pure austenitic metals and alloys by B.I. Medovar. Speeches on the activity of Ye.O. Paton were held by the Director of VNIIAvtogen A.N. Shashkov, Deputy-Chief Technologist of Uralvagonzavod N.D. Portnoy, Members of the Electric Welding Institute im. Ye.O. Paton of the AS of UkrSSR A.V. Korenyy and S.A. Ostrovskaya, Doctor of Medicine M.T. Gladkova, Director of the Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical Institute) I.P. Drogun, Head of the Welding Section of SNITOMASh S.V. Yunger, Head of the Welding Section of the "Krasnyy Kotel'shchik" Plant I.D. Davydenko and others.

TYURIN, V.F., inzh.

Third republican conference of welders in Lithuanian S.S.R. Svar. proizv. no.10:43 O '60. (MIRA 13:9)
(Lithuania—Welding--Congresses)

34047

S/117/62/000/002/001/00_
A004/A101

1.2300

AUTHOR: Tyurin, V. F.

TITLE: Television - the dependable help for the welder

PERIODICAL: Mashinostroitel', no. 2, 1962, 14 - 16

TEXT: The author points out that TV-installations are playing an important role also in the welding practice. Particularly, in the welding of main pipelines (during the Seven-Year Plan more than 50,000 km of pipelines are going to be laid) of big diameter it is possible to check the quality of the inner seam if a TV-installation is used. The author reports that at the Khartsyzskiy trubnyy zavod (Khartsyzsk Pipe Plant) a transmitting ПТУ - ОМ1 (PTU-OM1) TV-camera is mounted on a welding automatic during the welding of pipes 529 - 1,420 mm in diameter. The camera is fixed in such a way that, if the diameter of the pipes being welded changes, the distance between the camera objective and the welding joint practically remains unchanged. In this way it is possible to maintain the focussing of the image. The welding installation and the seam are projected on the screen of the receiving unit, so that it is possible to judge on the position of the welder inside the pipe relative to the edges of the blanks being welded. Since the

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Television - the dependable help for the welder

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A004/A101

image on the screen is magnified by a factor of 10, this method of checking operation ensures a great accuracy. The screen of the receiving unit is incorporated in the control panel of the machine tool. The necessary illumination of 200 - 300 lux is produced by two incandescent lamps of 50 w (36 v) each. In modern technology TV-installations are used also for checking remote-controlled motions of the welding head operating under circumstances which would be harmful to human health. The author describes the АСГ - НИТИ (ASG-NITI) welder with mounted TV-installation which was exhibited in 1960 at the Welding Exhibition of the VDNKh. This automatic is intended for the argon arc welding with tungsten electrodes with or without filler wire of large-sized structures of nonmagnetic or low-magnetic sheet material (e.g. aluminum, titanium, stainless steels, etc.). The remote telecontrol is carried out by an industrial ПТУ (PTU) installation whose objective is mounted in the joint plane at an angle of 35 - 45° at a distance of 300 mm from the welding spot. The image on the receiving screen is magnified by a factor of 5. The author reports on a number of foreign, particularly English and American TV-installations intended for welding control and gives some description of the technical features of these installations. [Abstracter's note: no names or designations are given]. He points out the many fields of application in which industrial TV-installations can be used particularly in the welding practice. There are 4 figures.

Card 2/2

TYURIN, V.F.

Television is a reliable aid for welders. Mashinostroitel' no.2:14-16 F '62. (MIRA 15:2)
(Khartsyzsk--Electric welding) (Khartsyzsk--Industrial television)

TYURIN, V.F.

Chamfering for press welding. Mashinostroitel' no.6:23-24 Je '61. (MIRA 14:6)

(Cold welding)

TYURIN, V.F., inzh.

Welding equipment at the International Exhibition of Construction and Road Machinery in Moscow. Svar.proizv. no.12:39-43 D '64. (MIRA 18:1)

YEMEL'YANOV, Leonid Vasil'yevich; ZHIVOTINSKIY, Lev Abramovich; GITLEVICH, Arlen Davidovich; TYURIN, V.P., nauchnyy red.; IONOV, V.N., red.; DORODNOVA, L.A., tekhn. red.

[Auxiliary equipment for welding; an album]Vspomogatel'noe oborudovanie dlia svarki; al'bom. Moskva, Proftekhizdat, 1962. 123p. (MIRA 16:1)

(Welding--Equipment and supplies)

TYURIN, V.F., inzh.; POPEKHIN, M.M., inzh.

Technological conference on welding in Moscow. Svar. proizv. no.7:43-44 Jl '61. (MIRA 14:6)
(Welding—Congresses)

TYURIN, V.F., inzh.

Scientific technological conference of Moscow welders on the results of welding research. Svar. proizv. no.8:44-46 Ag '63. (MIRA 17:1)

TYURIN, V.F., inzh.

All-Union conference on the design of welded structures.
Svar. proizv. no.1:38-40 Ja '64. (MIRA 17:1)

L 27936-66 EWT(d)/EWT(m)/EWP(c)/EWP(v)/T/EWP(t)/EWP(k)/ETI/EWP(l)/ETC(m)-6

ACC NR: AP6017729 IJP(c) JD/HM SOURCE CODE: UR/0122/66/000/003/0081/0083

AUTHOR: Tyurin, V. P. (Engineer)

55
48
B

ORG: none

TITLE: All-union scientific and technical conference on welding

SOURCE: Vestnik mashinostroyeniya, no. 3, 1966, 81-83

TOPIC TAGS: metallurgic conference, welding, diffusion welding, ultrasonic welding, friction welding, resistance welding, electron beam welding, welding equipment

ABSTRACT: An All-Union Scientific and Technical Conference on "New Welding Techniques and Improving the Quality of Welding in Machine Building" was held at the end of 1965 in Sverdlovsk. The conference was organized by the Sverdlovsk Regional Board of the Scientific and Technical Society of the Machine Building Industry and the Central Urals Sovnarkhoz. More than 600 representatives of enterprises, institutes and various organizations participated in the conference. Reports made at the conference indicate that considerable achievements have been made in the past seven years in development and organization of welding production. There has been more than a quadruple increase in the mechanization of welding operations and considerable growth in the output of welded articles. Considerable work has been done on transition from introduction of mechanized welding processes in individual working points to organization of complex mechanized mass-production welding lines, sections and shops. New welding methods have been developed and introduced into industry: friction, explosive, ultrasonic, diffusion, resistance-arc, electron-beam, plasma, etc. Considerable qualitative changes have also taken place in the field of gas-flame metal treatment: the

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ACC NR: AP6017729

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technological characteristics of processes have been improved; considerable work has been done on increasing the output of autogenous machine building products as well as improving their quality and reliability. /4

A report was given by Doctor of Technical Sciences A. S. Gel'man and Doctor of Technical Sciences K. V. Lyubavskiy TsNIITMASh-- (Central Scientific Research Institute of Technology and Machine Building) entitled "New Welding Methods and Their Future Prospects in Machine Building" in which the principles and fields of application of electro-beam, laser, explosive, friction, ultrasonic and diffusion welding are discussed. A report was given by Candidate of Technical Sciences S. M. TAZ'B (VNIIESO--All-Union Scientific Research Institute of Electric Welding Equipment) on "New Welding Equipment" in which he summarized equipment for fusion welding: miniature 180-amp transformers, multipost 1000-amp rectifiers, and automatic and semiautomatic argon and CO_2 welders. Portable 300-amp transformers, 1500- and 3000-amp welding rectifiers, new semiautomatic machines for 300-amp, CO_2 welding and automatic machines for plasma and three-phase welding are in the productinn stage. The titles and authors of various other reports are also given in the paper. [JPRS]

SUB CODE: 13 / SUBM DATE: none

Card 2/2 BLG

Tyurin, V.F.

15(7) PHASE I BOOK EXPLOITATION SOV/2992

Moskovskiy gorodskoy ekonomicheskiy rayon. Sovet narodnogo khozyaystva

Okraska v elektricheskom pole vysokogo napryazheniya (Painting in a High Voltage Electric Field) Moscow, Tsentr. byuro tekhn. informatsii, 1958. 63 p. (Series: Dostizheniya nauki i tekhniki) Errata slip inserted. 1,500 copies printed.

Compilers (Specialists, Central Scientific Research Laboratory of the All-Union Industrial Bureau "Lakokrasokrytiye"): Z. B. Vekhnovskiy, Engineer, Ye. N. Vladychina, V. I. Dubenskiy, Engineer, V. L. Zarembovich, Engineer, S. N. Serebryanikov, Engineer, V. U. Sokolyenko, Engineer and Ye. F. Timokhov, Engineer, Executive Engineer: V. F. Tyurin; Ed.: B. A. Borovikov; Tech. Ed.: A. F. Kuptsov.

PURPOSE: This book is intended for workers, technicians, and engineers engaged in the manufacture, application, and development of equipment for spray painting in high voltage electric fields.

COVERAGE: The authors analyze the industrial and economic problems of spray painting in high voltage electric fields. The book treats the nature and theoretical principles of the spray painting method, verified design specifications for spray painting equipment, and data on the manufacture and operation of such equipment. It also includes information on the experimental work carried out by the TsNIL (Central Scientific Research Laboratory) in this field. No references are given.

TYURIN, V.F., vedushchiy inzh.; GORBULEVA, Ye.A., red.; TORSHINA, Ye.A., tekhn.red.

[Mechanization and automatization of welding processes; from practices of the I.A.Likhachev Automobile Plant in Moscow] Mekhanizatsiia i avtomatizatsiia svarki; iz opyta Moskovskogo avtomobil'nogo zavoda im. I.A.Likhacheva. Moskva, TSentr. biuro tekhn.informatsii, 1958. 21 p. (MIRA 12:8)

1. Russia (1917- R.S.F.S.R.). Moskovskiy gorodskoy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva. (Welding--Equipment and supplies) (Automatic control)

TYURIN, V.F.

Apply advances in welding research and techniques to industrial production. Mashinostroitel' no.1:40-44 Ja '61. (MIRA 14:3)
(Welding)

L 13327-66 EWT(1)/EWT(m)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b) IJP(c)
ACC NR: AP5020168 MJW/JD/HM/JG/JT SOURCE CODE: UR/0135/65/000/008/0043/0045

AUTHOR: Tyurin, V. F. (Engineer)

ORG: none

TITLE: Annual meeting of Moscow and Moscow region welders

SOURCE: Svarochnoye proizvodstvo, no. 8, 1965, 43-45

TOPIC TAGS: welding, metallurgic conference, arc welding, electron beam welding, TIG welding, metal bonding, high strength steel, laser beam, mechanical heat treatment, alloy, TsM-2A alloy, VN-2 alloy, 25Kh5NVFA steel, SI25 steel, SI28 steel

ABSTRACT: The 10th Conference on Welding Science and Engineering was held 14-15 April 1965 in Moscow under the sponsorship of the Scientific-Engineering Society of the Machine-Building Industry. The conference was attended by 650 specialists. Fifty-three papers were presented. N. N. Rykalin and Yu. L. Krasulin (IMET im. A. A. Baykov) discussed methods of calculating the power parameters of a laser beam, suggested a method of calculation for regular and irregular beams, and presented results of calculations for the case of a heavy copper plate. M. Kh. Shorshorov, V. V. Belov, A. M. Senin, and V. I. Antipov (IMET im. A. A. Baykov) reported on the application of low temperature thermomechanical treatment to welds in hardenable steels. I. A. Maiseyenko spoke about the technology and equipment used in three-phase arc welding of high-strength, aluminum-alloy sections over 10 mm thick. K. V. Lyubavskiy and A. G. Smirnov discussed

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UDC: 621.791:006.3

the effects of preheating in welding 25KhSNVFA superstrength steel, and K. V. Lyubavskiy and B. N. Bad'yanov reported on the advantages of nonoxidizing AB-type fluxes in submerged-arc welding of SP25 and SP28 superstrength steels. N. F. Kazakov, E. S. Karakozov, S. B. Kalmykova, N. A. Mashkova, A. N. Gerberg, G. A. Shchepetina, and P. G. Pal'chev reviewed new developments in diffusion bonding of dissimilar materials, such as tungsten-rhenium alloy to molybdenum and ceramics to metals. V. S. Papenko, V. I. Mironov, and V. A. Vinogradov reported on the technology and equipment for joining thin-wall (0.1-1.0 mm) elements by mechanized TIG welding with programmed conditions and automatic coating of arc length. I. V. Vavulo and O. M. Novikov described the process, technology, and equipment for argon-shielded, three-phase, arc welding of aluminum-alloy sections up to 20 mm thick. O. V. Meshkova, O. M. Novikov, A. K. Kopylov, and V. A. Rekalov discussed the effect of base metal and welding conditions on the properties of V92 aluminum-alloy welds. Yu. G. Kirillov and F. R. Kulikov reviewed some problems in welding 0.6-1.0 mm thick sections of AMg6 alloys (leaks in weld-adjacent zone, effect of weld repairs, etc.). M. Kh. Shorshorov and G. Ye. Kainova reported on mechanico-thermal treatment of VT15 titanium-alloy base metal and welds. The treatment substantially increases strength and ductility. F. R. Kulikov and A. S. Persidskiy discussed some aspects of submerged-arc welding circumferential joints in VT-6C and VT14 titanium-alloy parts 10-20 mm thick. The following reports were among several presented by staff members of the Moscow Institute of Aviation Technology: V. V. Dyachenko, B. P. Morozov, and Ye. N. Sivov. Electron-beam and argon shielded-arc welding of 0.3 mm thick TsM-2A molybdenum alloy and VN-2 niobium alloy sections to 0.4 or 0.8 mm thick Kh18N10T steel sections without melting the refractory alloys;

L 13327-66

ACC NR: AP5020168

G. V. Bobrov, Yu. S. Dolgov, V. I. Privezentsev, L. G. Strizhevskaya, and V. M. Shmakov. Diffusion bonding of titanium alloys to copper alloys through plasma-sprayed molybdenum or niobium coatings; A. M. Boldyrev and G. D. Nikifornov. Increasing the density of weld metal by electro-polishing of filler wires; V. M. Nikitin and V. A. Rodionov. Increasing the strength of superstrength steel welds by upsetting the edges to be welded; V. N. Borisova, A. S. Popov, Ye. G. Antonov, Ye. Ya. Bazarina, G. D. Nikiforov, and S. T. Zhiznyakov. Specific technological features in fusion welding of SAP-alloys; S. I. Gusev. Techniques and equipment for resistance welding of radio-electronic circuits. [ATD PRESS: 4169-F]

SUB CODE: 13, 11 / SUBM DATE: none

Card 3/3 FW

FAYBISOVICH, L.I.; VARAKIN, P.I.; LARICHKIN, M.S.; MEDOVAR, B.I.; LATASH, Yu.V.; MAKSIMOV, I.P.; TYURIN, V.I.; BUSHMELEV, V.M.

Effect of electric slag remelting on the quality of roter open-hearth steel. Met. i gornorud. prom. no.5:18-21 S-O '64. (MIRA 18:7)

17

SOV/177-58-4-20/32

AUTHORS: Sysuyev, L.N., Major of the Medical Corps; Tyurin, V.T., Lieutenant-Colonel of the Medical Corps, and Osipov, S.S.

TITLE: Some Problems of Protecting Divers From Radiant Temperature Losses (Nekotoryye voprosy zashchity vodolazov ot luchistykh teplopoter')

PERIODICAL: Voyenno-meditsinskiy zhurnal, 1958, Nr 4, pp 67-71 (USSR)

ABSTRACT: Based on their own tests and those of N.K Vitte, A.Ye. Malysheva (1954), Letavet, Slonim, Margolina, Brandt (1949) and Professor Kondrat'yev, the authors concluded that: 1) the temperature losses during diving depend on the temperature difference of the skin surface and the surface of the diving suit and mostly result from radiation; 2) the usual diving underwear is permeable for human radiation in intensive temperature losses; 3) the aluminum-coated outer coats and overalls serve

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Some Problems of Protecting Divers From Radiant Temperature Losses

as reflecting screens, thus reducing the diver's temperature loss and preserving the temperature of the body and the skin on a higher level. There are 4 tables.

L 10872-67 EWT(1) SCTB DD

ACC NR: AP6035943 (N) SOURCE CODE: UR/0413/66/000/020/0204/0204

INVENTOR: Tyurin, V. I.; Klepatskiy, A. G.; Kolyadina, L. A.; Kitayev, Yu. V.; Sapogov, S. V.

ORG: none

TITLE: Breathing device for divers working at constant depths. Class 65, No. 187553

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 204

TOPIC TAGS: water, air, respirator, diving mask, naval physiology

ABSTRACT: An Author Certificate has been issued for a breathing device for divers working at constant depths. It consists of a housing with a mask and inhaling and exhaling valves; it is connected to the breathing bag of the device regulating the required gas volume. The breathing bag has a bleeder valve joined to a regenerative cartridge containing a chemical substance, and to a cartridge containing a chemical absorbent. To insure that the diver can remain under water at constant depths for a long period, the component regulating the required gas

Card 1/2 UDC: 629.128.2/7 614.894

L 10876-67
ACC NR: AP6035943

volume in the breathing bag is in the form of a housing with channels. The housing is joined to the exhalation tube by a regenerative cartridge and a cartridge containing a chemical absorbent. The housing contains a valve rest contacting an elasticized membrane mounted inside the housing and attached to the elastic walls of the breathing bag by flexible trip rods. The housing automatically distributes the flow of exhaled gas to the regenerative and absorbent cartridges. Orig. art. has: 1 figure. [Translation] [N-67-2]

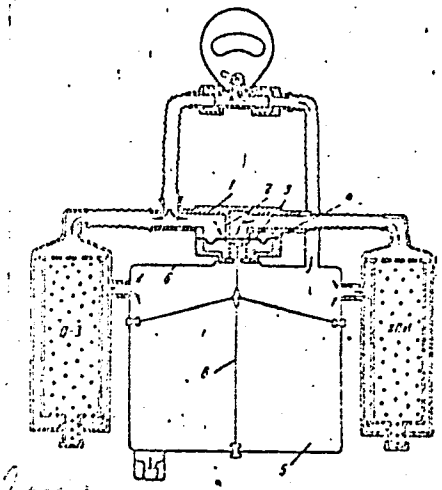

Fig. 1. Breathing device for divers. 1—Housing of device regulating required gas volume; 2—valve rest; 3—membrane; 4—spring; 5—breathing bag; 6—elastic trip rods

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SUB CODE: 06/SUBM DATE: 13Jan65/

NOTKIN, Ye. M.; KUR, G. Ye.; ARONSHTEYN, N. M.; Prinimali uchastiye: KAMNEV, V. S.; SHASHIN, N. N.; TYURIN, V. I.; VENBRIN, V. D.; DON-YAKHIO, I. A.; ABRAMOVA, Z. A.; VASIL'YEV, I. A.; LUK'YANOV, S. K.

Automatic process for the manufacture of sand cores for radiators. Sbor. trud. NIIST no.10:5-40 '62. (MIRA 15:10)

1. Moskovskiy chugunoliteynyy zavod imeni Voykova (for Kamnev, Shashin, Tyurin, Venbrin).

(Coremaking) (Radiators)

NOTKIN, Ye. M.; VILENSKAYA, I. A.; Prinimali uchastiye: DANILOV, M. A.; BORODIN, B. V.; MAREYEV, D. I.; TYURIN, V. I.; MALYSHEVA, A. A.

Mixtures for foundry cores produced by the sand slinging method. Sbor. trud. NIIST no.10:41-70 '62.
(MIRA 15:10)

1. Nauchno-issledovatel'skiy institut sanitarnoy tekhniki (for Danilov, Borodin). 2. Moskovskiy chugunoliteynyy zavod imeni Voykova (for Mareyev, Tyurin, Malysheva).

(Coremaking)

NOTKIN, Ye.M.; KUR, G.Ye.; ARONSHTEYN, N.M.; prinimali uchastiye: KAMNEV, V.S.; SHASHIN, N.N.; TYURIN, V.I.; VENBRIN, V.D.; MAREYEV, D.I.; VILENSKAYA, I.A.; BORODIN, B.V.; DON-YAKHIO, I.A.; MOSKALENKO, S.M.; ABRAMOVA, Z.A.; KLIMOV, M.D.; VASIL'YEV, I.A. LUK'YANOV, S.K.

Introducing automatic control in coremaking. Lit. proizv. no.6: 15-19 Je '62. (MIRA 15:6)

1. Nauchno-issledovatel'skiy institut santekhniki Akademii stroitel'stva i arkhitektury SSSR (for Luk'yanov).
(Coremaking) (Automatic control)

MEDVEDEV, I.F., kand.tekhn.nauk; TYURIN, V.I., gornyy inzh.

Results of first tests in using thermito-corundum bits for hole boring in coal. Ugol' 34 no.3:40-42 Mr '59. (MIRA 12:5)

(Boring machinery) (Corundum)

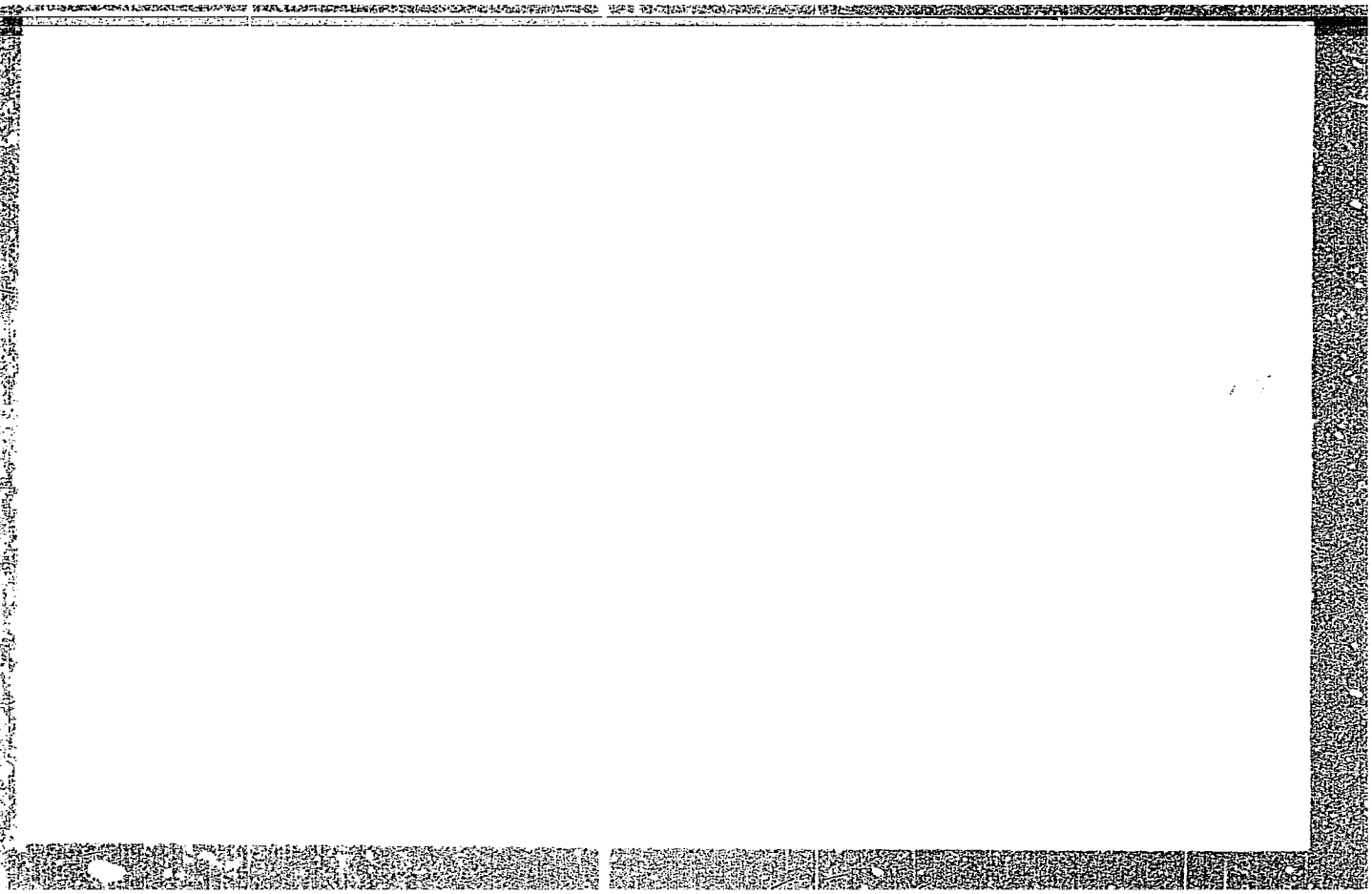
LISTOV, V.N.; NOVIKOV, V.A.; PETROV, I.I.; RYAZANTSEV, B.S.; SVERDLICHENKO, D.Ya.; SOKOLOV, V.F.; TYURIN, V.L.; EYLER, A.A.

Sixtieth anniversary of the birth of an outstanding scientist. Avtom., telem.i sviaz' 6 no.4:44 Ap '62. (MIRA 15:4)
(Ramlau, Pavl Nikolaevich, 1902-)

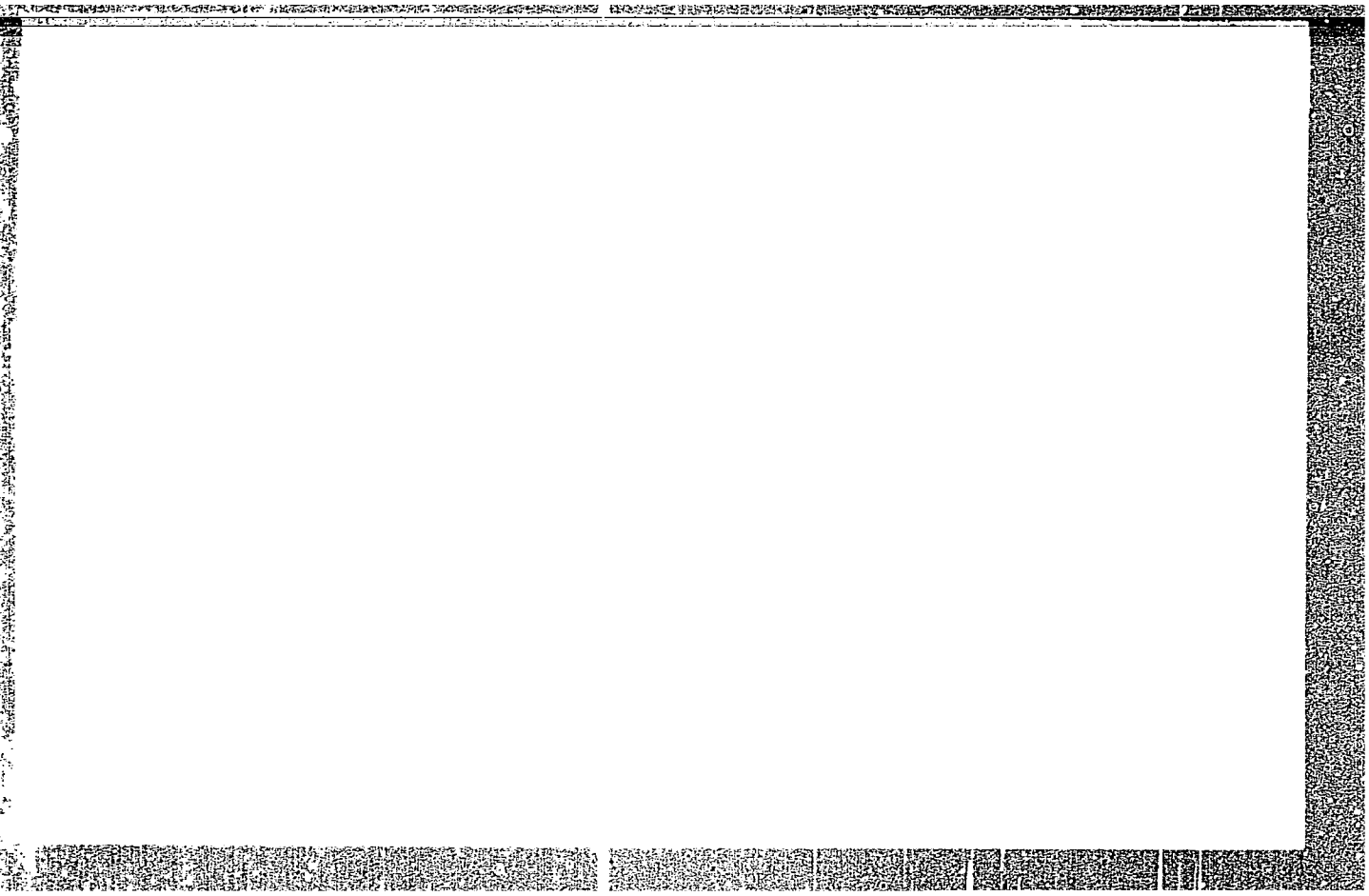
TYURIN, V.I.

Use of thermoluminescence for correlating carbonate oil-bearing layers. Neftegaz. geol. i geofiz. no. 10:29-32 '65.
(MIRA 18:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut neftyanoy promyshlennosti, Kuybyshev.



APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757730007-4"



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PHASE I BOOK EXPLOITATION SOV/4426

Leningrad. Institut inzhenerov zheleznodorozhnogo transporta

Avtomatika, telemekhanika i svyaz' (Automation, Telemechanics, and Communications) Moscow, Transzheldorizdat, 1960. 230 p. (Series: Its: Sbornik, vyp. 169) 1,000 copies printed.

General Ed.: V. N. Listov, Professor; Ed.: G. I. Marenkova, Engineer; Tech. Ed.: Ye. N. Bobrova.

PURPOSE: This book is intended for technical personnel and scientists engaged in the fields of automation, telemechanics, and communications.

COVERAGE: This collection of articles presents various methods of analysis and synthesis of electric circuits. New designs are described and ways of improving technical and economic indices of communication instruments investigated. The articles contain computations for individual types of communication and telemechanical systems. No personalities are mentioned. Some of the articles are accompanied by references.

Card 1/11

TABLE OF CONTENTS:

The author attempts to demonstrate that a much fuller correspondence exists between the methods of network theories used in the analysis of communications systems and the concepts of linear operator theory. He indicates the possibility of a much wider utilization in the communications theory of a series of new mathematical forms for standard communications circuit components. The introduction of such mathematical forms, characteristics representing properties of idealized components of complex communications circuits (filters, modulators, and others), extends the methods of network theory and permits their use in the analysis of communications block diagrams and also narrows the gap existing between the methods of the network and information theories. The author defines linear space and subspace of signals and gives a general definition and examples of linear operators, and of their eigenfunctions and eigenvalues. Definition and properties of projection operators, functions of self-coupled operators, definition and properties of unitary operators, and the expansion of an arbitrary linear operator are also discussed. There are 6 references: 5 Soviet and 1 English.

TYURIN, V.L., dotsent, kand. tekhn. nauk

Realization of polynomial amplifier circuits. Sbor. trud. LIIZHT no.22[illegible]3-20 '64.

Method for finding the approximation of a rational function in P.L.Chebyshev's sense. Ibid.:21-43 (MIRA 18:9)

TYURIN, V.L., kand.tekhn.nauk, dotsent

Synthesis of some amplifier networks using the given frequency characteristic of the amplifier. Sbor. trud LIIZHT no.179:116-125 '61. (MIRA 16:11)

YURIN, V.L

108-7-13/13

AUTHOR: Not given
TITLE: New Books, (Novyye knigi, Russian)
PERIODICAL: Radiotekhnika, 1957, Vol 12, Nr 7, pp 81-81 (U.S.S.R.)

ABSTRACT: V.A.KOTEL'NIKOV: "Theory of the Potential Noise Stability", published by Gosenergoizdat, 1956, 151 pages, price 6.15 roubles. This is a monograph and the material contained can be used for the analysis of modulation-radio reception methods.

New methods worked out in the field of radio communication and broadcasting. Informative reference work "Technology of Telecommunication", published by Svyaz'izdat. 1957. 71 pages. price 2.20 roubles (Ministry for Post Office and Telecommunication in the U.S.S.R., technical administration). Description of the latest developments, as e.g. highfrequency apparatus for radio relay lines of the "Strela" type, the termistor measuring instrument of highfrequency power, the device for measuring the relative level of transition- and fluctuation noise in multichannel radio relay lines, the impulse-oscillograph IO-52, the latest microphone types, the multifrequency generator for sound telegraphy, the strong radiation tetrode, the apparatus with crystal triodes for determining defective parts in subterranean lines with non-metallic casing.

Card 1/2

108-7-13/13

New Books.

V.YA.KRYLOV: "Artificial Earth Satellite", published by "Sovetskoye radio", 1957, 76 pages, price 2.25 roubles. A monograph.

A.K.VARDENBURG: "Plastic Masses in Electrotechnical Industry", second edition, revised and completed. Published by Gosenergoizdat, 1957, 231 pages, price 8.- roubles.

V.L.TYURIN, V.N.LISTOV, A.V.VYSOTSKIY: "Telecommunication", second edition, revised and completed. Published by "Transzheldorizdat", 1957, 411 pages, price 13,20 roubles. Theoretical bases. Textbook for Railway Schools.

ASSOCIATION: Not given
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress

Card 2/2

TYURIN, V.L., kand. tekhn. nauk, dotsent

Concerning certain types of polynomial amplifiers. Sbor. trud. LIIZHT no.186 Elektrosviaz' i radiotekhnika:43-52 '62. (MIRA 16:7)

(Amplifiers (Electronics)) (Telephone)

TYURIN, V. L., dotsent, kandidat tekhnicheskikh nauk.

Determining the transmission levels in group systems of multi-channel communication lines. Sbor. nauch. trud. LETIIZHT no.6:5-16 '54. (Electric lines) (MLRA 9:1)

TYURIN, V.L.

Filters with given attenuation change in the transparency band. Elektrosviaz' 19 no. 12:51-59 D '65 (MIRA 19:1)

TYURIN, Docent V. L.

Railroads - Communication Systems

Calculating the number of instruments for automatic, long distances communication centers, and methods of increasing the use of automatized channels. Shor. nauch. rab., LETIIS, No. 3, 1949.

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

TYURIN, V.L., dots., kand.tekhn. nauk; KYASHKO, V.A., inzh.

Signaling devices used in remote automatic communication lines of railroads. Sbor. nauch. trud. LETIIZHT no.5:133-145 '53.(MIRA 11:3)
(Railroads--Telephone)

TYURIN, V.L., kand.tekhn.nauk, dots.

Synthesis of some amplifying circuits. Sbor.LIIZHT no.161: 124-131 '58. (MIRA 11:12)
(Radio circuits) (Amplifiers, Vacuum-tube)

TYUTIN, V.L.

27878 Raschet chisla priborov na stantsiyakh avtomaticheskoy dal'ney svyazi i metody uvelicheniya ispol'zovaniya avtomatizirovannykh kanalov. sbornik nauch. rabot (leningr. elektrotekhn. in-t inzhenerov signalizatsii i svyazi zh.-d. transporta), vyp. 3., 1949 s. 102-14

SO: Letopis' Zhurnal'nykh Statey, vol. 37, 1949

TYURIN, V.L., kandidat tekhnicheskikh nauk, dotsent.

Analysis of the effect of feedback on the stability of amplifier operation. Sbor.LIIZHT no.151:19-36 '56. (MLRA 10:1)
(Amplifiers, Electron-tube)

TYURIN V.L.

TYURIN, VIKTOR LEONIDOVICH.

Dal'nyaya svyaz' (Long distance communications, by) V. L. Tyurian, B. N. Listov, I A. V. Vysotskiy. 2d., perer. 1 dop. izd. Moskva, Transzheldorizdat, 1957.

411 p. diagrs., graphs.

Bibliography at the end of each chapter.

TYURIN, V.L., kand.tekhn.nauk, dotsent

Spectrum analysis and some conversions of a two-frequency signal. Sbor. LIIZHT no.169:51-66 '60. (MIRA 13:11)
(Telephone) (Frequency changers)

L 10450-66 EWT(1)/EWA(h)

ACC NR: AR5027557 SOURCE CODE: UR/0274/65/000/008/A012/A012

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 8A94

AUTHOR: Tyurin, V. L.

TITLE: Realization of polynomial-amplifier circuits

CITED SOURCE: Sb. tr. Leningr. in-t inzh. zh.-d. transp., vyp. 224, 1964, 3-20

TOPIC TAGS: amplifier, polynomial amplifier, amplifier design

TRANSLATION: A unique realization is considered of a circuit of polynomial amplifiers whose gain modulus can be represented as a 2n-degree polynomial of a normalized variable function of frequency (n is the number of amplifier stages). By analyzing the amplifier circuit, it is demonstrated that the multistage circuit design can be reduced to that of simplest single- and two-stage amplifiers which are considered in detail. The method takes into account the variation of amplification characteristics at the band fringes due to negative-into-positive feedback change and ensures an amplification accuracy of 0.05--0.1 nep. Examples of calculations show that the specified characteristic deviations can be observed if the system components have tolerances within ± (5--10)%. Bib 7, figs 6.

SUB CODE: 09

Card 1/1 pw

UDC: 621.372.5:621.375

TYURIN, V.L.

Compensation of the frequency characteristics of attenuation in electrical networks. Elektrosviaz' 19 no.10:45-55 O '65. (MIRA 18:12)

1. Submitted Febr. 24, 1965.

TYURIN, Viktor Leonidovich, dotsent, kandidat tekhnicheskikh nauk; LISTOV, Vladimir Nikolayevich, professor, doktor tekhnicheskikh nauk; VYSOTSKIY, Anton Vyacheslavovich, inzhener; POGODIN, A.M., inzhener, redaktor; BOBROVA, Ye.N., tekhnicheskiy redaktor

[Long-distance communication] Dal'niaia sviaz'. Izd. 2-oe, perer. i dop. Pod obshchei red. V.N.Listova. Moskva, Gos.transp.zhel-dor. izd-vo, 1957. 411 p. (MLRA 10:7)
(Telegraph) (Telephone)

TYURIN, Viktor Leonidovich, kand. tekhn. nauk, dots.; LISTOV, Vladimir Nikolayevich, doktor tekhn. nauk, prof.; Prinimali uchastiye: SEMENYUTA, N.F., inzh.; D'YAKOV, D.V., inzh.; MIKHNOVICH, B.P., kand. tekhn. nauk, dots.; ANISIMOV, N.K., dots.; BAGUTS, V.P., assistent; NOVIKAS, M.N., red.

[Telecommunication] Dal'niaia sviaz'. Izd.3., perer. i dop. Moskva, Transport, 1964. 470 p. (MIRA 17:12)

TYURIN, V.M. (Voroshilov-Ussuriyskiy)

Resection of nasal conchae with infiltrated novocaine and penicillin anesthesia. Vest. oto-rin. 18 no.1:74 Ja-F '56. (MLRA 9:6)

(NOSE--SURGERY) (ANESTHESIA)

TYURIN, V.M., Gvardii kapitan meditsinskoy sluzhby

Device for standard sounding of tuning forks. Voen.-med.zhur. no.4: 79-80 Ap '60. (MIRA 14:1)

(TUNING FORKS)

USSR/Human and Animal Morphology. Pathological Anatomy S-5

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 92866

Author : Tyurin V.M.
Inst : -
Title : Ossification of the Ear Auricle

Orig Pub : Vestn. oto-rino-laringologii, 1958, No 1, 96

Abstract : A case of ossification of the left ear auricle in a 34-year old person is described which developed after trauma and was followed by hematoma.

Card : 1/1

12

TYURIN, V.M.

TYURIN, V.M. (Voroshilov-Ussuriyskiy)

Ossification of the pinna. Vest.oto-rin. 20 no.1:96 Ja-F '58. (MIRA 11:3)
(EAR, EXTERNAL, dis.
ossification of pinna (Rus)

TYURIN, V. N.

"Agricultural Specialization and Agricultural Rayons of Lithuania (Presoviet Period)." Min Education RSFSR, Leningrad State Pedagogical Inst imeni A. I. Gersten, Chair of Economic Geography, Leningrad, 1955
(Dissertation for the Degree of Candidate of Geographical Sciences)

SO: Knizhnaya Letopis', No. 32, 6 Aug 55

TYURIN, V.N. (Kirov)

Economic geography and some aspects of agricultural production. Geog. v shkole 25 no.1:45-48 Ja-F '62. (MIRA 15:1)
(Agriculture--Economic aspects)

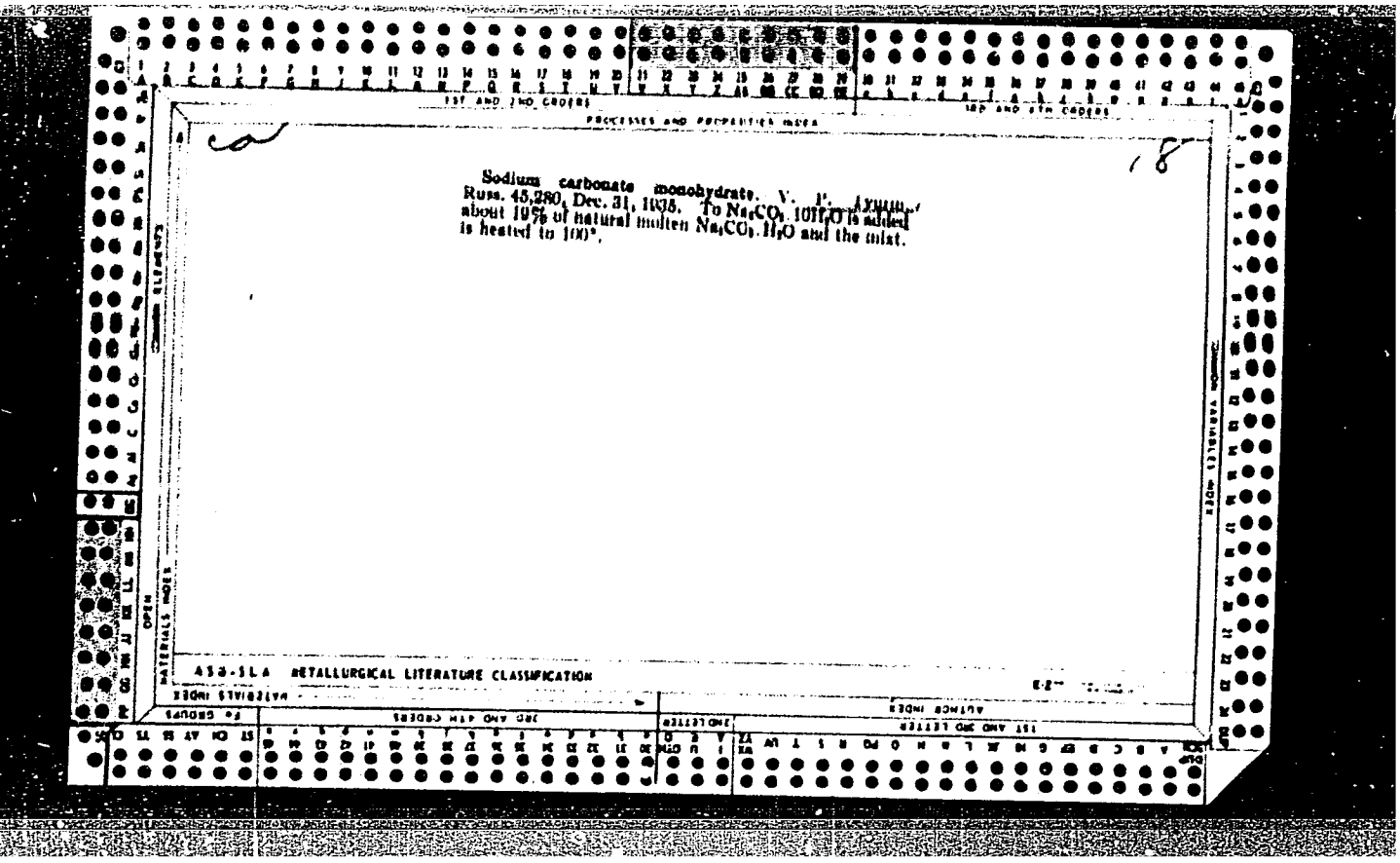
OKHAPKIN, F.P.; TYURIN, V.N.

"Local geography" by N.G. Nikolaev, E.V. Ishkova. Reviewed by F.P. Okhapkin, V.N. Tiurin. Geog. v shkole 25 no.6:83-85 N-D '62. (MIRA 15:12)

(Geography--Study and teaching)
(Nikolaev, N.G.) (Ishkova, E.V.)

YAKOVLEV, A. I., kand. tekhn.nauk; TYURIN, V. P., inzh.; EYDINOV, A. A., inzh.

Dynamic indices of new types of streetcars. Nov. tekh.zhil.-kom.khoz.:Gor.dor.-most.khoz. i transp. no. 2:31-46 '63. (MIRA 17:5)



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L 7972-66 EWT(m)/EPF(c)/ETC/EWG(m)/EWP(j)/T/EWP(t)/EWP(b) IJP(c) DS/JD/JG/RM
ACC NR: AP5025083 SOURCE CODE: UR/0364/65/001/010/1268/1272

AUTHOR: Burshteyn, R. Kh.; Pshenichnikov, A. G.; Tyurin, V. S.; Knots, L. L.

ORG: Electrochemical Institute AN SSSR (Institut elektrokhimii AN SSSR)

TITLE: Chemisorption and oxidation of hydrocarbons on a platinum electrode I. Ethane

SOURCE: Elektrokhimiya, v. 1, no. 10, 1965, 1268-1272

TOPIC TAGS: hydrocarbon, chemisorption, oxidation, electrode, platinum, electrolytic cell

ABSTRACT: It has been demonstrated that the chemisorption of organic substances on platinized platinum is accompanied by processes of dehydrogenation, and hydrogenation and by breaking of the C-C and C=C bonds. It follows from galvanostatic charge curves that, in the chemisorption of ethylene and ethane on a platinum surface, the amount of chemisorbed hydrogen and organic groups depends on the experimental conditions. The present article examines the process of the chemisorption and oxidation of ethane on a platinum electrode, using the method of tri-

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angular pulse voltages with a scanning speed of 5 mv/sec. The i-φ curves were recorded with a two-coordinate automatic recording instrument, Type PDS-021. The experiments were carried out in 1 N H_2SO_4 at 90 C. The electrode, at a given potential (φ), was brought into contact with a solution saturated with ethane. The residence time in the solution saturated with ethane, at a potential equal to 1.1 volts, was calculated from the moment when the electrode attained a potential of 0.6 volts. Then the hydrocarbon was eliminated from the solution by passing argon through it for a determined period of time. The i-φ curves were constructed by taking different intervals of time for the residence of the ethane in the chemisorbed state. The experimental results are exhibited graphically and in tabular form. Orig. art. has: 7 formulas, 5 figures and 1 table

SUB CODE: GC/ SUBM DATE: 30 May65/ ORIG. REF: 003/ OTH REF: 003

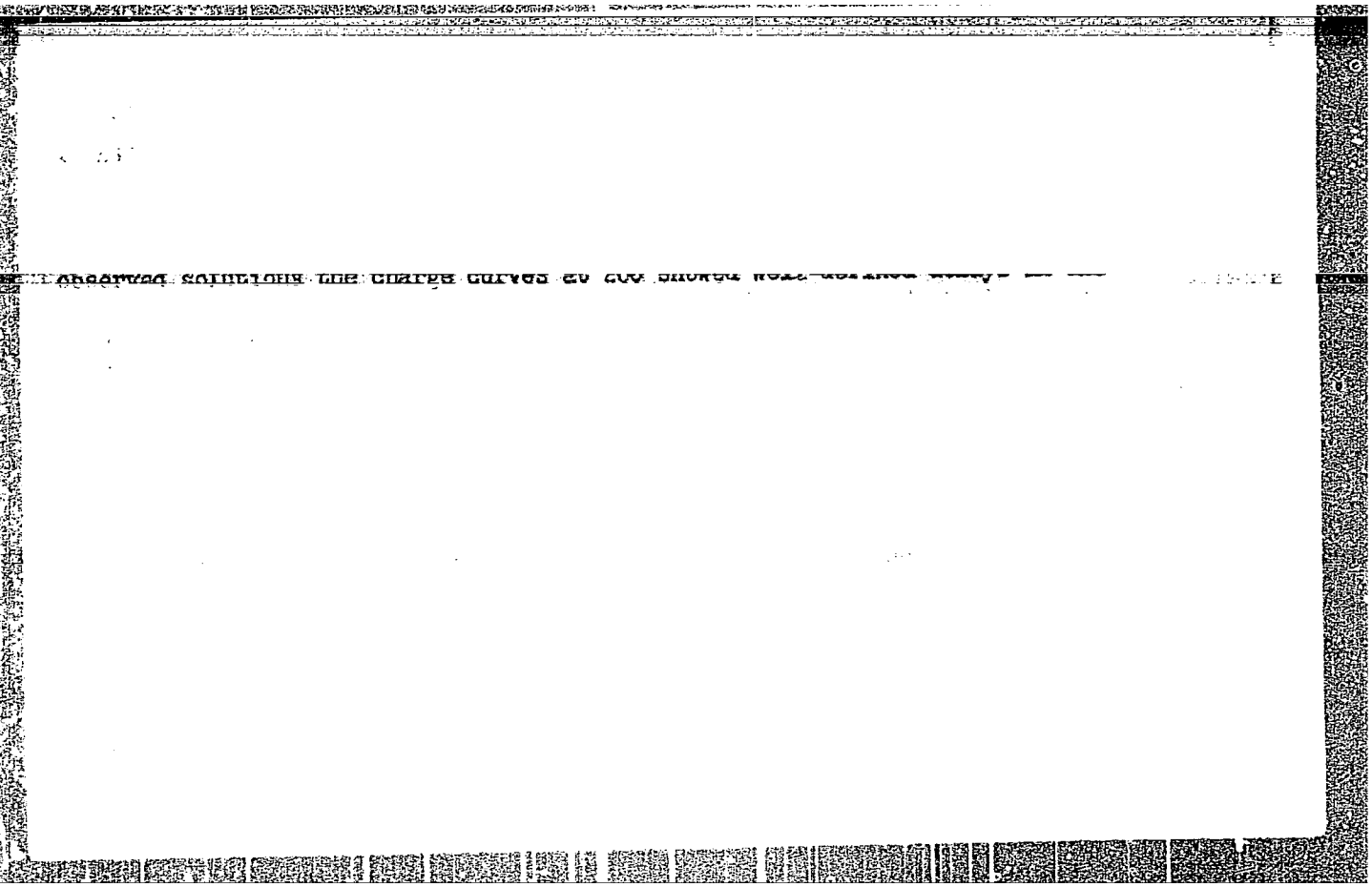
GC

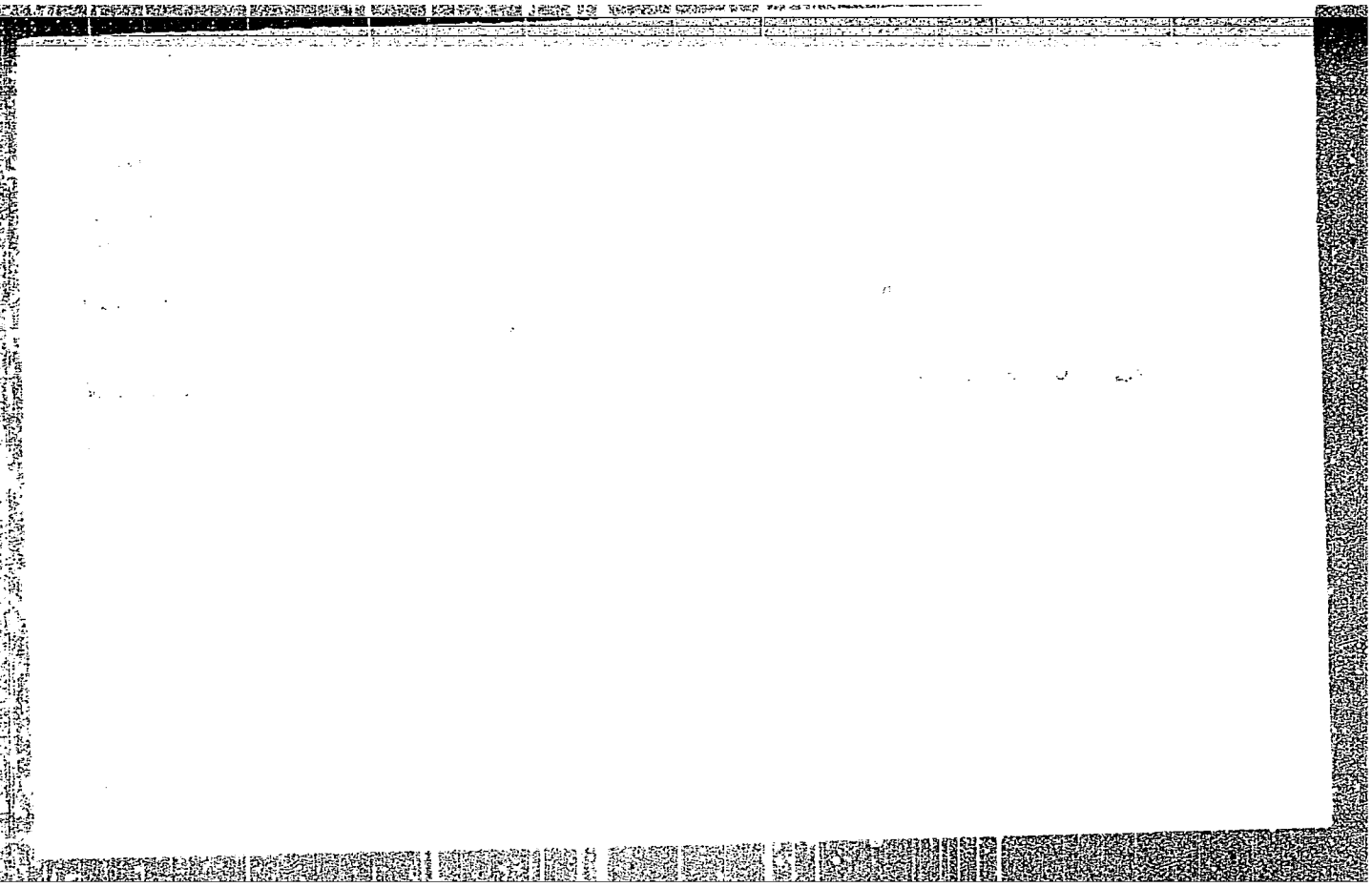
[illegible], F.Kh.; [illegible], V.I.; [illegible], A.T.

Electrochemical oxidation of hydrocarbons on a platinum electrode. Dokl. AN SSSR 160 no.3:629-632 Je '65. (MIRA 18:3)

1. Institut elektrokhimii AN SSSR. Submitted July 15, 1964.

[redacted] Tourin, V. S.; Pshenichnikov, A. G.





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MOROZOV, V.N.; TYURIN, V.V.; SNEZHINSKIY, N.S.

Life of refractories in tank furnaces of direct heating. Stek. i ker. 19 no.3:11-13 Mr '62. (MIRA 15:3)
(Glass furnaces) (Refractory materials)

S/135/61/000/007/011/012
A006/A106

AUTHORS: Tyurin, V. V., Popekhin, M. M., Engineers

TITLE: The Moscow scientific and technical welding Conference

PERIODICAL: Svarochnoye proizvodstvo, no. 7, 1961, 43-44

TEXT: The VI. annual welding Conference was convened on March 21-22, 1961, in Moscow by the Moscow NTO MAShPROM municipal administration, Mosgorsovnarkhoz and the NTO MAShPROM regional administration. The Conference was attended by about 400 delegates and guests. It was opened by Professor N. N. Rykalin, Corresponding Member of AS USSR, Chairman of the welding section of the Moscow administration of NTO MAShPROM. The Conference then heard the following reports: M. Kh. Shorshorov, Candidate of Technical Sciences and Engineer G. V. Nazarov, IMET imeni Baykov, on "Kinetics of phase transformations and the formation of cold cracks in titanium alloys during welding"; Engineers L. A. Fridlyand, Yu. K. Konov and T. N. Zinov'yeva on "Kinetics of intermetallic phase formation during welding of dissimilar metals"; Candidate of Technical Sciences A. N. Krutikov and Engineer T. V. Arest, NIIKHIMMASh, on "Weldability and corrosion resistance of bimetals: steel-copper, steel-bronze, steel-brass"; Engineer

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S/135/61/000/007/011/012
A006/A106

N. V. Tolmacheva and Candidate of Technical Sciences A. Ya. Brodskiy, TsNIISK, on "Weldability of heat-strengthened low-carbon steel"; Candidate of Technical Sciences, G. D. Nikiforov, MATI, on "Conditions of pore formation in weld metal during welding of aluminum and its alloys and research of effective measures to prevent porosity"; Engineer O. G. Tkachenko, TsNII MPS, on the weldability of new rail steels of higher strength; Engineer V. S. Gavrilyuk, MVTU imeni Bauman, on the effect of alloying components on the plasticity of weld joints in the crystallization temperature range; Engineer D. M. Shashin, MVTU imeni Bauman, on the effect of aging at 350-650°C on the properties of 18-8 type steel welds; Candidate of Technical Sciences A. A. Yerokhin, Engineers A. N. Bykov and O. M. Kuznetsov, IMET imeni Baykov, on "Processes of ferromanganese oxidation during the heating of electrode coatings"; Engineer I. N. Vornovitskiy, VNIIST, on "Developing ВСЦ-1 (VSTs-1) cellulose electrodes for welding main pipelines"; Engineer Ye. M. Rogova, VNIIST on "Technological and metallurgical peculiarities of electrodes with plastic coatings"; Engineer P. B. Ladyzhinskiy on "Unification of electrodes for welding stainless 18-8 type steels"; Engineer I. M. Vagapov, on "High-efficiency electrodes for welding structural steels"; Engineer T. V. Berg on "Mechanization of manufacturing electrodes for welding aluminum"; Engineer V. P. Zvyagintsev, VNIIPTUGLEMASh, on developing the composition and technology

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The Moscow scientific and technical ...

for manufacturing ceramic magnetizing fluxes; Engineer V. M. Yelagin on an automatic machine with servo-mechanisms directing the welding torch along the weld, constant arc length and TV remote control; Engineer K. S. Moroz, VPTI MGSNKh, on the organization of model welding practice at the "Kompressor" Plant; Engineer A. V. Shadrin, Koloma Locomotive Building Plant, on the same subject; Engineer K. P. Voshchanov, TsESM VNIIAVTOGEN, on the work of Central experimental welding shops concerning the introduction of advanced welding methods at Mosgorsovnarkhoz plants; Engineer M. I. Grigor'yeva, and G. K. Nikonov, NIITRAKTOROSEL'KhOZMASh, on "Automated welding of horizontal seams on box-section assemblies"; Engineer Yu. I. Nekrasov, VNIIAVTOGEN, on "Automated hardfacing up of plowshares"; Engineer M. S. Kaufman, VNIIPTUGLEMASh, on hardfacing operational components of pneumatic centrifugal crushers; Engineer Yu. G. Vinogradov, and Candidate of Technical Sciences V. B. Shlyapin, TsNII MPS on "Some problems of the theory and practical application of vibro-arc hardfacing under flux"; Engineer B. G. Lozhkin, Experimental welding plant, on "Experiences of joint operation of ZIL and OSZ on hardfacing of dies"; Candidate of Technical Sciences G. F. Skakun, and Engineer A. A. Chekalov, Moscow Aviation Technological Institute, on technological peculiarities of ultrasonic resistance welding of SAP sintered aluminum material; Candidate of Technical Sciences, B. D. Orlov and Engineer V. L.

Card 3/5

The Moscow scientific and technical ...

Leshchenko on the technology of stepped roller welding of semi-conductor small-diameter equipment; Doctor of Technical Sciences, A. A. Alov, Engineer R. G. Ol'khovik, Engineer V. M. Shmakov and Candidate of Technical Sciences, G. V. Bobrov, on the technology of argon-arc butt welding with consumable electrodes of 40 x 50 and 50 x 60 aluminum-magnesium bars; Candidate of Technical Sciences I. D. Kulagin and Engineer A. V. Nikolayev, IMET imeni Baykov, on "Thermal and mechanical characteristics of plasma arc jet"; Candidate of Technical Sciences, K. I. Zaytsev, VNIIST, on "Welding plastic insulation coatings of petroleum containers"; Candidate of Technical Sciences N. A. Ol'shanskiy, and Engineer Yu. L. Zorin, MVTU imeni Bauman, on "Welding of metals with non-metallic materials"; Engineer D. V. Leont'yev and Candiate of Technical Sciences, V. B. Shlyapin, TsNII MPS, on "Cold welding of copper contact conductors on railroad and municipal transportation"; Engineer I. S. Shapiro, VNIIAVTOGEN, on oxygen cutting of steel without preheating; Candidate of Technical Sciences R. I. Zakson and Engineer V. D. Voznesenskiy, NIITRAKTOROSEL'KhOZMASh. on the technological possibilities of friction welding; Doctor of Technical Sciences, F. I. Kislyuk, on "Some non-destroying methods of controlling the quality of butt welds during resistance welding"; Candidate of Technical Sciences A. M. Gofner and Engineer G. M. Turkel'-taub on "Mechanized welding with a wire having an internal core"; Engineer

The Moscow scientific and technical ...

V. V. Zheltenkov, on "Mechanized welding in continuous production of aluminum containers in an assembly shop"; Candidate of Technical Sciences A. V. Petrov and Engineer G. A. Slavin, on "Welding thin-sheet materials"; Engineer A. S. Popov on "Experiments on welding-up containers with liquid fuel residue"; Ye. V. Sokolov on the work of the periodical "Svarochnoye proizvodstvo"; Candidate of Technical Sciences Ye. N. Terpugov on the reference journal "Svarka".

Card 5/5

TYURIN, Ye.; PYZH, V.; SAZYKIN, P.

Using mechanized cold and hot bending and straightening of parts for ship structures; Odessa Ship Repair Yard. Inform. sbor.TSNIIMF no.26:25-33 '58. (MIRA 13:4)

1. Odesskiy sudoremontnyy zavod No.1.
(Odessa--Shipyards--Equipment and supplies)

KUDRIN, V.A.; NECHKIN, Yu.M.; TYURIN, Ye.I.; ABROSIMOV, Ye.V.

Determining the contamination of the ShKh15 steel by nonmetallic oxide inclusions. Zav.lab. 26 no.6:732-733 '60. (MIRA 13:7)

1. Moskovskiy institut stali.
(Steel—Metallography) (Oxides)

S/139/61/000/0.2/002/[illegible]
A006/A101

AUTHORS: Yakushev, A. M., Kryakovskiy, Yu. V., Tyurin, Ye. I., Sorokin, S. F., Yavoyskiy, V. I., Glushtshov, M. V.

TITLE: The effect of rare-earth elements on flake sensitivity of structural alloyed steels

PERIODICAL: Metallurg, no. 12, 1961, 9-11

TEXT: There are only few data available on the effect of rare-earth elements on hydrogen behavior in iron and steel and the resulting defects. To complete these data, workers of the Moscow Steel Institute and the "Krasnyy Oktyabr'" Plant carried out a series of laboratory and industrial melts. They were assisted by L. N. Permyakov, M. P. Lapshova, O. D. Petrenko, V. G. Volnyanskiy, G. R. Opanchevich, V. A. Grigor'yev and V. P. Bondarev. They studied the effect of the amount of rare-earth elements (0.3 and 0.5%) on hydrogen solubility in iron and the effect of the temperature on hydrogen solubility in alloys with 20% and more of these elements. The results have shown that it cannot be expected that rare-earth elements in the given amounts will eliminate defects of the steel; on the other hand, the increasing hydrogen sorption capacity at lower

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The effect of rare-earth elements ...

temperatures of alloys containing these-elements leads to the expectation that they will bind the hydrogen liberated during the cooling of metal and prevent flake formation. These results were checked by the experimental melting of 37XC (37KhS), 38XCA (38KhSA) and 36Г2С (36G2S) steels containing 6.3 - 8.0 cm^3/100 g hydrogen, ferrocerium with 94 - 96% Ce, misch metal with 45 - 55% Ce, 25 - 30% La and up to 15% other rare-earth elements. Ingots were heated for 4 - 6 hours at 1,150 - 1,180°C in blooming pits and rolled into 400 - 500 mm air-cooled specimens, which were subjected to breaking tests and etching to establish their flake sensitivity. Results obtained are given in a table and show that the addition of rare-earth elements in amounts exceeding 2.7 kg/t prevent flake formation in 37KhS and 36G2S steel even in profiles of 195 - 225 mm section, under the condition that individual blooms be air-cooled. The experiment has shown that rapid cooling of the blooms will be possible due to the use of rare-earth elements. This will entail a number of economical and technical advantages. There are 1 table and 2 figures.

Card 2/2

POLOZHENTSEV, S.D.; TYURIN, Ye.I.

Myocardial changes developing in connection with hyperadrenalemia in pheochromocytoma. Kardiologiia 4 no.6:81-83 N-D '64. (MIRA 18:8)

1. Kafedra Voyenno-morskoy i gospital'noy terapii (nachal'nik - prof. Z.M.Volynskiy) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova, Leningrad.

NIKOLAYEV, Ye.I.; KRYAKOVSKIY, Yu.V.; TYURIN, Ye.I.; YAVOYSKIY, V.I.

Chemical heterogeneity and nonmetallic inclusions in ingots of steel with rare-earth metals. Izv. vys. ucheb. zav.; chern. met. 8 no.7:37-42 '65. (MIRA 18:7)

1. Moskovskiy institut stali splavov.

KUDRIN, V.A.; ABONIKOV, S.M.; NECHKIN, Yu.M.; SOROKIN, S.P.; TYURIN, Ye.I.; LAPSHOVA, M.P.; YUDSON, A.A.; POPOV, Ya.S.

Performance of a 30 ton open-hearth furnace with a roof gas and oxygen burner. Metallurg 10 no.1:14-16 Ja '65.
(MIRA 18:4)

ACC NR: AP7002576 (A,N) SOURCE CODE: UR/0413/66/000/023/0073/0073

INVENTOR: Fatkina, A. M.; Gulyayev, A. P.; Ul'yanin, Ye. A.; Tyurin, Ye. I.

ORG: none

TITLE: Nickel steel. Class 40, No. 189152 [announced by the All-Union Scientific-Research Institute of Oxygen Machine Building Industry (Vsesoyuznyy nauchno-issledovatel'skiy institut kislorodnogo mashinostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 23, 1966, 73

TOPIC TAGS: nickel steel, LOW TEMPERATURE METAL, MECHANICAL PROPERTY

ABSTRACT:

This Author Certificate introduces a nickel steel with improved mechanical properties at subzero temperatures containing 0.06% max carbon, 0.45 to 0.60% manganese, 0.17—0.37% silicon, and 6.0—6.5% nickel.

SUB CODE: 11/ SUBM DATE: 14Sep65/ ATD PRESS: 5113

Card 1/1 UDC: 669.14.018.41:669.15'24-194

YAKUSHEV, A.M.; KRYAKOVSKIY, Yu.V.; TYURIN, Ye.I.; SOROKIN, S.P.; YAVOYSKIY, V.I.; GLUSHTSOV, M.V.

Effect of rare-earth elements on flake-sensitivity of alloyed structural steels. Metallurg 6 no.12:9-11 D '61. (MIRA 14:11)

(Steel, Structural--Metallography)
(Cerium)

KUDRIN, V.A.; MECHKIN, Yu.M.; TYURIN, Ye.I.; ABROSIMOV, Ye.V.

Compressed air blowing of metal in acid open-hearth furnaces.
Metallurg 5 no.6:17-18 Je '60. (MIRA 13:8)

1. Moskovskiy institut stali.
(Open-hearth process) (Compressed air)

TYURIN, Ye.I., inzh.; KUZNETSOV, V.N., inzh.

Use of hydraulic clamps of plate and frame filter presses for crushing and pressing operations. Khim.mashinostr. no.2:40 Mr-Ap '63. (MIRA 16:4)
(Filter presses)

YAVOYSKIY, V.I., doktor tekhn.nauk; MATEVOSYAN, P.A., inzh.; KRYAKOVSKIY, Yu.V., kand.tekhn.nauk; TYURIN, Ye.I., kand.tekhn.nauk; VISHKAREV, A.F., kand.tekhn.nauk; PERMYAKOV, L.N., inzh.; ANTIPOV, K.I., inzh.

Using rare-earth elements in the making of structural, alloyed and stainless steel. Stal' 23 no.5:422-425 My '63. (MIRA 16:5)
(Steel--Electrometallurgy) (Rare-earth metals)

ACCESSION NR: AP3021467 S/0133/63/000/005/0422/0425

AUTHOR: Yavoyskiy, V. I. (Dr. of technical sciences); Matevosyan, P. A. (Engineer); Kryakovskiy, Yu. V. (Candidate of technical sciences); Yurin, Ye. I. (Candidate of technical sciences); Vishkarev, A. F. (Candidate of technical sciences); Permyakov, L. N. (Engineer); Antipov, K. I. (Engineer)

TITLE: Use of rare-earth elements in smelting of structural alloy steel and of stainless steel

SOURCE: Stal', no. 5, 1963, 422-425

TOPIC TAGS: Ce, La, Nd, Pr, Ni, Armco-iron, steel Kh23N18, steel KhGSA, steel 1Kh18N9T, steel 12Kh1MF, steel 40Kh, flake formation, steel 37KhS, steel 36G2S, steel 30KhSA

ABSTRACT: The influence of rare-earth elements on properties of different kinds of steel was investigated at Moskovskiy institut stali i splavov (Moscow Institute of Steel and Alloys). Ce, La, Nd, and Pr were used separately in the form of an alloy (45-55% Ce, up to 28% La, and up to 15% Nd). Laboratory tests indicated that Ce and La lowered the surface tension of molten steel.

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L 12846-63
ACCESSION NR: AP3001467

It was shown that rare-earth elements used in metallurgy (up to 0.3%) do not change the concentration of hydrogen dissolved in molten steel. These elements formed stable nitrides and had a deoxidizing and desulfurizing effect on Armco-iron, on steel Kh23N18, and on steel 30KhGSA. The steel smelted with rare-earth elements was twice as tough as without them. The aftercharge of rare-earth elements improved the elasticity of stainless steel Kh23N18 and reduced the total amount of nonmetallic impurities. Moreover, 1% of Ni was saved, without any loss of elasticity, when rare-earths were added in making the steel 1Kh18N9T, while the addition of rare-earths to a number of structural alloy steels (30KhGSA, 12Kh1MF, 40Kh) improved their elasticity. An addition of up to 1.5 kg/t of rare-earths reduced but did not eliminate the formation of flakes in steel 37KhS, 36G2S, and 30KhSA. However, adding up to 2.7-2.8 kg/t the formation of flakes was completely eliminated. "The melts were made with the assistance of M. N. Kul'kova, B. S. Petrov, M. P. Lapshova, G. D. Shuryagin, V A. Grigor'yev, B. N. Okorkov, A. M. Yakushev, P. N. Balashev, G. R. Opanevich, and others." Orig. art. has: 2 figures and 5 tables.

Card 2/2

KRYAKOVSKIY, Yu.V.; RUBENCHIK, Yu.I.; TYURIN, Ye.I.; YAVOYSKIY, V.I.

Mechanical properties and the character of nonmetallic inclusions in alloyed structural steel with rare-earth metal additions. Metalloved. i term. obr. met. no.8:11-18 Ag '63. (MIRA 16:10)

1. Moskovskiy institut stali i splavov.

SOV/133-58-7-7/27

AUTHORS: Kudrin, V.A., Candidate of Technical Sciences, Tyurin, Yu.I., and Mechkin, Yu.M., Engineers

TITLE: An Efficient Deoxidation of Ball-bearing Steel in Acid Furnaces (Ratsional'noye raskisleniye sharikopodshipnikovoy stali v kislykh pechakh)

PERIODICAL: Stal', 1958, Nr 7, pp 606 - 607 (USSR)

ABSTRACT: This is a contribution to the previously published paper by P.P. Semenenko, M.M. Golovanov and I.G. Fadeyev - "On Smelting Ball-bearing steel in Acid Open-hearth Furnaces" (Stal', 1957, Nr 6). The present authors contribute their experience gained during the investigations of the problem by the MIS (Moscow Institute of Steel) in co-operation with the Metallurgical Combine imeni Serov. It was found that the maximum contamination of metal with inclusions during the smelting and teeming process is observed after its deoxidation in the furnace. An increase in non-metallic inclusions during deoxidation has a substantial influence on the contamination of the finished metal (Figure 1). The deoxidation with silico-calcium in the furnace contributes to a decrease in the contamination of metal by non-metallic inclusions.

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SOV/133-58-7-7/27

An Efficient Deoxidation of Ball-bearing Steel in Acid Furnaces

Optimum results were obtained when using 600 g/t of silico-calcium (Figure 2). Introducing into the furnace increased additions of aluminium increases the degree of contamination of the metal (Figure 3).
There are 3 figures.

ASSOCIATION: Moskovskiy institut stali (Moscow Institute of Steel)

1. Steel--Deoxidation 2. Open hearth furnaces--Applications

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