BERLYAND, T.S.

Call Nr: AF 1136586

AUTHOR: Berlyand, T. S., Comp.

TITLE: Odessa; a handbook (Odessa; spravochnik)

PUB. DATA: Odesskoye oblastnoye izdatel'stvo, Odessa, 1957, 246 pp., 12,000 copies

ORIG. AGENCY: None given

EDITORS: Krivokhatskiy, I.; Tech. Ed.: Mogiletskiy, B.

PURPOSE: Guidebook

COVERAGE: This reference book consists of two sections: the introductory section of 70 pages which provides the reader with historical background, and the remainder which is a telephone directory and tourist guide. Two older industrial establishments were modernized and expanded by the Soviets: the one-time railroad car repair workshop has become the hoist and crane works im. Yanvarskoye Vosstaniye, and the older plough factory is now the machinery works

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Odessa; a handbook (Cont.)

im. Oktyabr'skaya Revolyutsiya, the largest Russian producer of tractor ploughs. The Soviets built dikes along the salt lakes (limans) and the coast in the Peresyp' city district to protect the adjacent land and several of the local sanatoria. Since WW II the following other enterprises have been completely rebuilt: the "Krasnaya Gvardiya" machinery works; the "Dzerzhinskiy" steel-rolling mill; the refrigerating equipment plant; the shipbuilding and repair plant; and the steel cable and hemp rope plant. On pages 179-184 there is a list of industrial enterprises in Odessa in operation as of 1957. This list includes the following major plants, with their addresses and telephone numbers: scales plant im. P. Starostin; nail and wire plant im. Ivanov; foundry and sheet-iron works; boiler manufacturing plant; food-processing equipment plant; medical instruments plant ; veterinary instruments plant; bearing repair plant; radial drilling machine plant im. Lenin; machine-tool works im. Kirov; motor-vehicle assembly plant; welding equipment plant; motion-picture equipment plant; the "Krasnaya Gvardiya" machinery works;

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Odessa; a handbook (Cont.)

the machinery works im. Kalinin; flour mill equipment plant; farm machinery works im. Oktyabr'skaya Revolyutsiya; fire-fighting equipment plant; steel cable and hemp rope plant; two shipyards (a shipbuilding and repair yard and ship-repair yard Nr 2); superphosphate plant; "Krasnyy Oktyabr'" physics laboratory apparatus plant; refrigerating equipment plant im. Stalin; bed factory im. Khvorostin; chemico-pharmaceutical factory; and the crane and hoist works im. Yanvarskoye Vosstaniye. Machinery and industrial equipment have become Odessa's chief products. Specifically mentioned are: high-precision heavy machine-tools; cranes of 5 to 50 tons lifting capacity; heavy hydraulic presses; construction and road-building machinery; precision scales for metallurgical industries and railways; motor dump trucks; lathes, cutters, drills, honing machines and other metal-working machine-tools. Odessa has a mechanized harbor, two shipyards, and abundant mooring facilities,

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Odessa; a handbook (Cont.)

and is the base port for the Black Sea Shipline, the Antarctic whaling fleet and the Black Sea engineering fleet ("tekhnicheskiy flot"). The book contains photographs of city buildings and recreation facilities. In addition, three photographs show Odessa's industries (an inside view of the machinery works im. Yanvarskoye Vosstaniye; Odessa-made self-dumping trucks; and a general view of the machinery works im. Oktyabr'skaya Revolyutsiya) and two show the diesel-electric ship "Rossiya" and the whale factory-ship "Slava."

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Odessa; a handbook (Cont.)

AVAILABLE: Library of Congress

Card 8/8

BERLYAND, TS.; MAGARIN, N.; EDEL'MAN, S., red.; FRIDNER, A., red.; MOLCHANOVA, T., tekhn. red.

[Odessa; reference book (as of March 1, 1963)]Odessa; spravochnik (po sostoianiiu na 1.III-1963 g.) Odessa, Odesskoe knizhnoe izd-vo, 1963. 207 p. (MIRA 16:12)
(Odessa—Guidebooks)

BERLYAND, V.I., inzh.

Some special features in the work of elastic clutches with spiral springs for use in steam turbines. Energomashinostroenie 10 no.11: 23-27 N '64 (MIRA 18:2)

AVERBAKH, Yu.A., inzh.; BERLYAND, V.I., inzh.

Conversion of turbines to back-pressure operation. Elek. sta. 36 no.6:25-29 Je '65. (MIRA 18:7)

BERLYANT, A.M.

Practice in the quantitative study of recent tectonics through the morphometrical reconstruction of the original relief. Izv. AN SSSR Ser. geog. no.1:107-112 Ja-F '65.

(MIRA 18:2)

1. Gosudarstvennyy geologicheskiy komitet SSSR i Nauchno-issledovatel'skaya laboratoriya geologicheskikh kriteriyev otsenki perspektiv neftegazonosnosti.

BIBLYANT, A.M.; LITVIN, L.F.

Application of the cartographical method for the study of recent tectonic movements. Vest. Mosk. un. Ser. 5: Geog. 19 no.3:31-38 My-Je '64. (MIRA 17:6)

1. Nauchno-issledovatel'skaya laboratoriya geologicheskikh kriteriyev otsenki perspektiv neftegazonosnosti.

BERLYANT, I.I.

Case of a spontaneous rupture of the musculus rectus abdominis.
Akush. i gin. 39 no.5:147 S-O '63. (MIRA 17:8)

1. Iz Ural'skoy oblastnoy bol'nitsy (glavnyy vrach S.A. Temkin).

BERLYANT, I.I.

Operation of exchange transfusion of blood in anaerobic sepsis.
Akush. i gin. 40 no.1:45-48 Ja-F '64. (MIRA 17:8)

1. Glavnyy akusher-ginekolog Ural'skogo oblastnogo otdela zdravookhraneniya.

BERLYANT, I. YA

TER-OVAKIMYAN, Ivan Artem'yevich; ARKHANGEL'SKIY, N.A., doktor tekhnicheskikh nauk, nauchnyy redaktor; BERLYANT, I.Ya., redaktor; TSIRUL'NITSKIY, N.P., tekhnicheskiy redaktor

[Designing the foundations for women's street clothes; a method of calculation and analysis] Konstruirovanie osnovy verkhnei zhenskoi odezhdy; raschetno-analiticheskii metod. Moskva, Vses. koop. izd-vo, 1956. 154 p. (MLRA 10:4)
(Dressmaking) (Tailoring)

BERLYANT, I. Ya.

MAKHLEVICH, Lev Yakovlevich; BRITKIN, A.S., professor, nauchnyy redaktor; BERLYANT, I.Ya., redaktor; TSIRUL'NITSKIY, N.P., tekhnicheskiy redaktor.

[Repair of equipment in clothing and footgear establishments] Remont oborudovaniia shveinykh i obuvnykh predpriiatii. Moskva, Vses.koop. izd-vo, 1956. 167 p. (MLRA 10:4)
(Sewing machines--Repairing)

VSEVOLODOV, Nikolay Sergeyevich; BERLYANT, I.Ya., redaktor; SUKHODOLOV, S.T., tekhnicheskiy redaktor; TSIRUL'NITSKIY, E.P., tekhnicheskiy redaktor

[Utensils that lighten house work] Izdeliia, oblegchaiushchie trud v domashnem khoziaistve. Moskva, Vses. kooperativnoe izd-vo, 1956. 33 p. (MLRA 10:2)

(Kitchen utensils)

BERLYANT, I.Ya.

SPASSKIY, N.A.; BERLYANT, I.Ya., redaktor; LAUT, V.G., tekhnicheskiy redaktor

[Gluing household objects] Skleivanie predmetov domashnego obikhoda. Moskva, Vses. koop. izd-vo, 1956. 39 p. (MLRA 10:4)
(Gluing)

BERLYANT, I. Ya.

KUTYREVA, V.P.; KAPLAN, S.L.; PIKHOVA, V.M.; GVOZDEVA, A.I.; TITKOVA, Z.V.; LECHITSKIY, V.I.; LEPILKOVA, M.F.; BERLYANT, I.Ya., redaktor; TSIRUL'NITSKIY, N.P., tekhnicheskiy redaktor

[Standard operations involved in trimming; a collection] Tipovye tekhnologicheskie protsessy proizvodstva otdelok; sbornik. Moskva, Vses.kooper.izd-vo, 1957. 94 p. (MLRA 10:7)

1. Russia (1917- R.S.F.S.R.) Sovet promyslovoy kooperatsii. TSentral'naya opytno-tekhnicheskaya shveynaya laboratoriya. (Dressmaking)

NIKITSKIY, L.I.; BERLYANT, I.Ya., red.; BONDAREV, M.S., tekhn.red.

[Producers' cooperatives of the people's democracies; a collection of articles] Promyslovaia kooperatsiia stran narodnoi demokratii; sbornik statei. [Leningrad] Koiz, 1957. 122 p. (MIRA 11:5)
(Cooperative societies)

BERLYANT, I. YA.

KAZARYAN, Paylak Yefremovich; BERLYANT, I.Ya., redaktor; TSIRUL'NITSKIY, N.P., tekhnicheskiy redaktor

[Chemistry in everyday life] Khimiia v bytu. Izd. 4-oe, ispr. i dop. Moskva, Vses.koop.izd-vo, 1957. 199 p. (MLRA 10:10)
(Chemistry)

BERLYANT, I. YA.

BUNIMOVICH, David Zakharovich; CHEL'TSOV, V.S., kand.tekhn.nauk, red.; BERLYANT, I.Ya., red.; TSIRUL'NITSKIY, N.P., tekhn.red.

[Amateur photographer's handbook] Spravochnik fotoliubitelia. Pod red. V.S.Chel'tsova. Moskva, Vses. koop.izd-vo, 1957. 359 p. (Photography--Handbooks, manuals, etc.) (MIRA 11:5)

BERLYANT, I. Ya.

LEVITIN, Yefim Alekseyevich; BERLYANT, I. Ya., redaktor; TSIRUL'NITSKIY, N.P., tekhnicheskiy redaktor

[Radio receivers; repair and adjustment] Radioveshchatel'nye lampovye priemniki; remont i nalazhivanie. Perer. i dop. izd. Moskva, Vses. kooperativnoe izd-vo, 1957. 384 p. (MIRA 10:3)
(Radio--Receivers and reception)

BERLYANT, I. Ya.

GAY-GULINA, Mariya Samoylovna; BERLYANT, I.Ya., redaktor; TSIRUL'NITSKIY, N.P., tekhnicheskiy redaktor

[Repair and reconditioning of knit goods] Remont i restavratsiia trikotazha. Moskva, Vses.koop.izd-vo, 1957. 30 p. (MIRA 10:9)
(Knit goods--Repairing) (Knitting)

KOMAROV, Nikolay Stepanovich, prof.; BERLYANT, I.Ya., red.; GUMBINA, S.V., tekhn.red.

[Refrigeration in the household] Kholod v domashnem bytu. Moskva, Vses.koop.izd-vo, 1958. 62 p. (MIRA 12:9)
(Refrigeration and rerigerating machinery)

KRUGLYAK, Iosif Naumovich; SVIDERSKIY, Georgiy Danilovich; BERLYANT, I.Ya., red.; ZAYTSEVA, L.A., tekhn.red.

[Maintenance and repair of refrigerators] Remont domashnikh kholodil'nikov. Moskva, Vses.kooper.izd-vo, 1959. 238 p. (MIRA 12:8)

(Refrigerators--Maintenance and repair)

MAKHLEVICH, Lev Yakovlevich. Prinimali uchastiye: GARBER, M.I.; TELUKHIN, V.D.; SIDOROV, V.I.; BERLYANT, I.Ya., red.; ZAYTSEVA, L.A., tekhn.red.

[Machine repair shops in clothing factories] Remontno-mekhanicheskie masterskie shveinykh predpriiatii. Moskva, Vses.koop. izd-vo, 1959. 254 p. (MIRA 13:5)
(Clothing industry--Equipment and supplies)

YANCHEVSKAYA, Ye.A., inzh.-konstruktor; IZOTOVA, M.A., red.; CHUKASHEVA, A.D., spetsred.; BERLYANT, I.Ya., red.; ZAYTSEVA, L.A., tekhn.red.

[Designing coats for children and adolescents] Konstruirovanie pal'to dlia detei i podrostkov. Moskva, Vses.koop.izd-vo, 1960. 99 p. (MIRA 14:6)

1. TSentral'naya opytno-tekhnicheskaya shveynaya laboratoriya. 2. TSentral'naya opytno-tekhnicheskaya shveynaya laboratoriya (for Yanchevskaya). 3. Glavnyy inzh.TSentral'noy opytno-tekhnicheskoy shveynoy laboratorii (for Izotova).
(Coats)

SENATOR, M.; BABENDIKH, Kh. [Babendich, H.]; OTLEVSKI, A. [Otlewski, A.]; BERLYANT, I.Ya., red.; ZAYTSEVA, L.A., tekhn. red.

[Artistic mending; clothing repair] Khudozhestvennaia shtopka; remont odezhdy. Moskva, Gos. izd-vo mestnoi promyshl. i khudozh. promyslov RSFSR, 1961. 81 p. (MIRA 14:9)
(Clothing and dress--Repairing)

POLYAKOVA, V.I.; OKUNEV,, A.L.; KULYUKINA, N.N.; BERLYANT, I.Ya., red.

[Painting and decoration of toys made from paper-wood pulp, wood, metal, plastics and other materials] Okraska i rospis' igrushek iz bumazhno-drevesnykh mass, dereva, metalla, plastmass i drugikh materialov. Moskva, Gosmestpromizdat, 1962. 2 v. (MIRA 17:4)

ZHDANOV, V.M.; RITOVA, V.V.; GEFEN, N.Ye.; ZHUKOVSKIY, A.M.; BERLYANT, M.L.; YEVSTIGNEYEVA, N.A.; YEGOROVA, N.B.; KREYNIN, L.S.; LEONIDOVA, S.L.; SERGEYEV, V.M.; SMIRNOV, M.S.

Comparative study of intranasal and aerosol methods of vaccination against influenza. Zhur. mikrobiol., epid. i immun. 33 no.11:63-67 N '62. (MIRA 17:1)

1. Iz Instituta virusologii imeni Ivanovskogo AMN SSSr.

BERLYANT, M. L.

"Epidemiology of Virus Grippe," Voyenno-Med. Zhur., No. 11, P. 67, 1955.

BERLYANT, M.L.

Epidemiological effectiveness of live anti-influenza vaccines of types A2 and A,A1, B. Vop. virus. 5 no. 1:30-32 Ja-F '60. (MIRA 14:4)

(INFLUENZA)

ACC NR: AP6021584 (N) SOURCE CODE: UR/0402/66/000/003/0371/0372

AUTHOR: Orlova, N. N.; Sokolova, N. N.; Orlova, A. V.; Berlyant, M. L.; Tesminitskiy, G. L.; Jen, Kuei-fang

ORG: none

TITLE: Characteristics of influen a virus strains isolated at epidemiological Foci in 1965

SOURCE: Voprosy virusologii, no. 3, 1966, 371-372

TOPIC TAGS: epidemiology, virology, virus, influenza virus

ABSTRACT:
Of three virus strains isolated from patients in two influenza outbreaks, one resembled standard strain PR8 and the other two were identified as new type A strains. Their biological and antigenic properties are being studied. [W.A. 50; CBE No. 10]

SUB CODE: 06/ SUBM DATE: none/

Card 1/1

ALEKSANDROV, A. Yu.; BERLYANT, S.M.; KARPOV, V.L.; LESHCHENKO, S.S.; OKHLOBYSTIN, O.Yu.; FINKEL', E.E.; SHPINEL', V.S.

Study by the Mössbauer effect of the behavior of dibutyltin dimaleate as stabilizer in the irradiation of polyethylene. Vysokom. soed. 6 no.11:2105-2107 N '64 (MIRA 18:2)

L 06456-67 EWT(m)/EWP(1) IJP(c) GG/RM

ACC NR: AP6024546 (A) SOURCE CODE: UR/0089/66/021/001/0064/0066

AUTHOR: Berlyant, S. M.; Drozdov, V. Ye.; Finkel', E. E.; Orlenko, P. A.; Suroyegin, L. M.; Breger, A. Kh.; Karpov, V. L.; Zorin, V. A.

ORG: none

TITLE: Large-scale radiation cross linking of polyethylene insulation of cable products

SOURCE: Atomnaya energiya, v. 21, no. 1, 1966, 64-66

TOPIC TAGS: radiation chemistry, polyethylene, polymer cross linking, insulated wire, electric cable/ KP gamma ray apparatus

ABSTRACT: In view of the many advantages resulting from the use of irradiated thermally stabilized polyethylene as insulation in cables, the authors describe apparatus developed for the irradiation of such insulation, for use in geophysical cables for very deep well drilling (o.d. 6.5 mm, length ~9 km, weight ~380 kg, volume ~ 400 l), capable of withstanding temperatures up to 200C and pressures higher than 300 atm. The entire cable was wound on a drum and exposed to γ radiation from Co^{60} (total activity 180,000 g-equivalent of radium) from the KP-200 apparatus. Measures taken to ensure uniformity of the gamma radiation, which is an essential factor in the success of the operation, are described. The required dose was 140 Mrad (±10%). At a dose intensity of 63 r/sec and an irradiation time of 610 hr, the productivity of the apparatus was 0.7 kg/hr and the efficiency ~13%. The authors thank G. N. Lisov

UDC: 621.039.55: 541.15

Card 1/2

BYLINSKIY, Ye.N.; NAMESTNIKOV, Yu.G.; BERLYAT, A.M.

New data on the recent tectonics of the lower part of the Mezen' Basin. Izv. AN SSSR. Ser. geog. no.1:53-55 Ja-F '64. (MIRA 17:3)

1. Geologicheskiy komitet SSSR i Nauchno-issledovatel'skaya laboratoriya geologicheskikh kriteriyev otsenki perspektiv neftegazonosnosti.

1. BERLYAVSKIY, B. I. BELOUSOVA, Z. L.

2. USSR (600)

4. Issyk-Kul'Region-Geology, Stratigraphic

7. Results of the petroleum exploration in the region of Issyk-Kul' in the Kirghiz S. S. R. during 1939. Izv. Glav. upr. geol. fon?no '47.

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

BERLYAVSKIY, V.I.

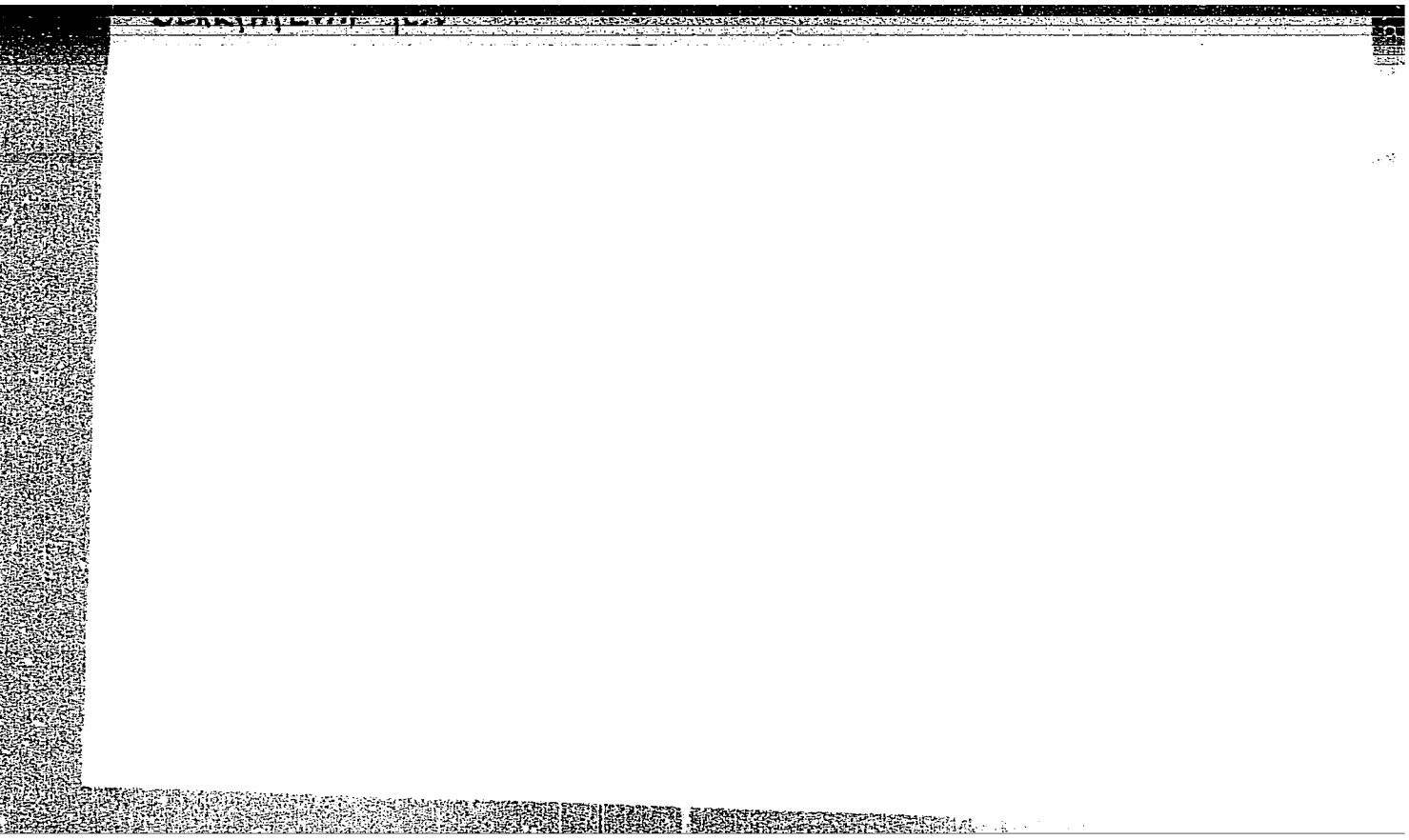
Formation of gas pools in the menilite series of the Bitkov oil field. Geol. nefti i gaza 8 no.4:21-25 Ap '64.
(MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologoroavedochnyy neftyanoy institut, Moskva.

GERASIMOV, Ye. P.; BERLYAYEV, K. M.; GIL', A. V.; KNYAZEV, S. N., Engineers

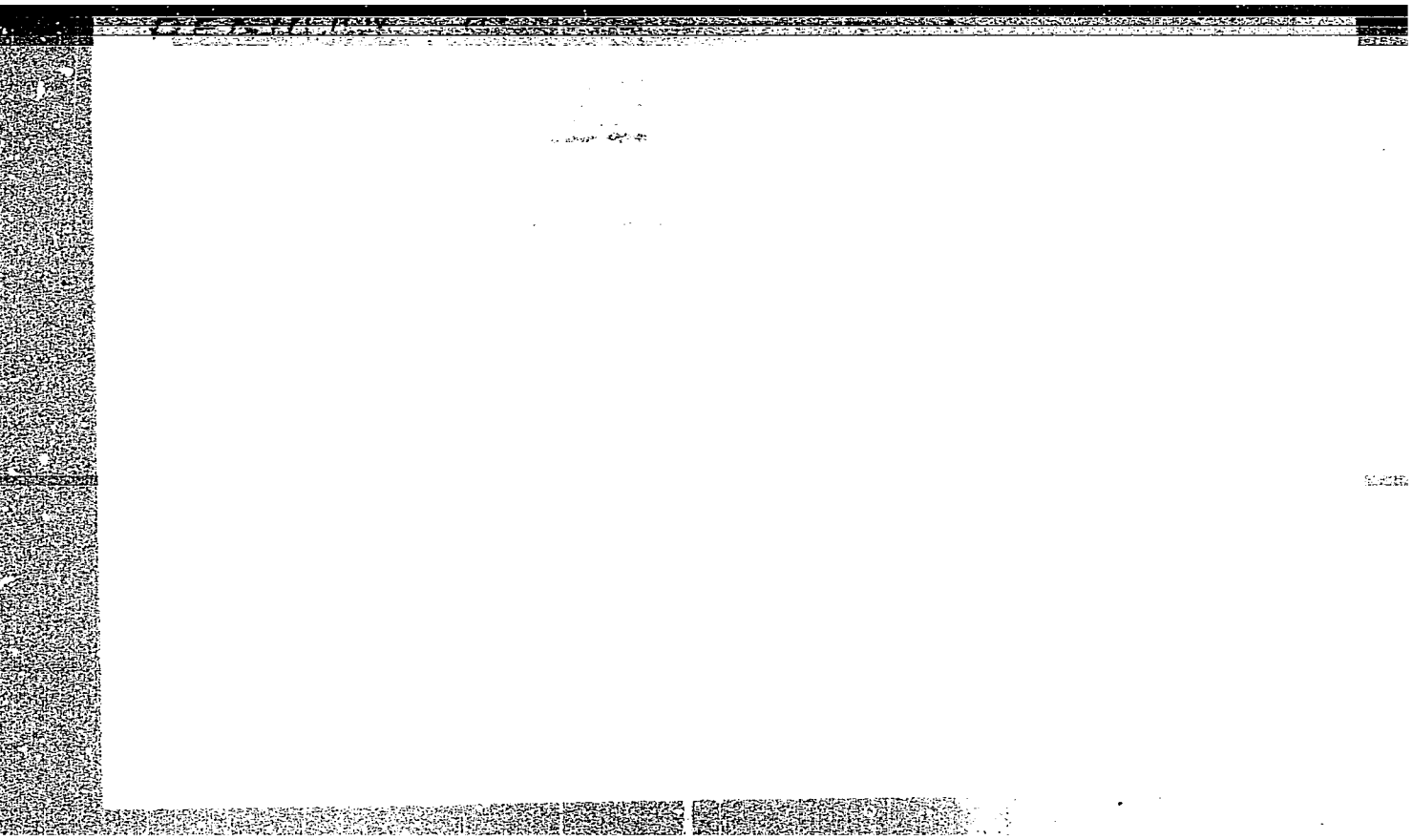
"Cast Thread Gauges," Stanki I Instrument, 16, No. 3, 1945

BR-52059019



BERMAN,A.

Applying Infrared Heating in the Dragee and Polyvitamin Production. Revista De Chimie (Journal of Chemistry), #2:92:Feb 55



APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205010010-2"

BERMAN, A.; ROTH, A.

Physics and technique of drying lacquered surfaces by means of infrared radiation.

p. 263
Vol. 4, no. 6, June 1956
ELECTROTEHNICA
Bucuresti

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 12
December 1956

BERMAN, A.

Berman, A.; Roth, A.

Designing installations with lamps for infrared radiations. p. 490

ELECTROTEHNICA. (Asociata Stiinifica a Engineerilor si Tehnicienilor din Rominia si Ministerul Energiei Electrice si Industriei Electrotehnice) Bucuresti. Vol. 3, no 11, Nov. 1955

So. East European Accessions List Vol. 5, no 9, September, 1956

BERMAN, A.

Concerning the Characteristics of Installations of Lamps for Infrared Radiation. Electrical Engineering, #6:232:Jun 55

BERMAN, A.

Designing Installations with Lamps for Infrared Radiation. Electrical Engineering, #11:490:Nov. 55

BERMAN, A.

Category : RUMANIA/Optics - Photometry, Colorimetry, and Illumination Engineering K-10

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5348

Author : Berman, A., Roth, A.
Title : Measurement of Infrared Radiation

Orig Pub : Metrol. apl., 1956, 3, No 4, 16-24

Abstract : General apparatus are described for the measurement of infrared radiation. Various methods and instruments used for the purpose are considered.

Card : 1/1

TABACHNIKOV, L.Ya., kand. tekhn. nauk; KOSYAK, A.F., inzh.; BERMAN, A.A., inzh.

Choice of gas distribution phases in a two-cycle engine with pulsed pressure feed. Energomashinostroenie 10 no.12:24-26 D '64. (MIRA 18:2)

USSR / Human and Animal Morphology (Normal and Pathological). S
Circulatory System. Blood Vessels.

Abs Jour : Ref Zhur - Biologiya, No 9, 1958, No. 40856

Author : Berman, A. B.
Inst : Dnepropetrovsk Medical Institute
Title : The Course and Branches of the Cervico-Vaginal Artery

Orig Pub : Sb. nauchn. rabot. Dnepropetr. med. in-t, 1956, 2, 15-18

Abstract : 80 cervico-vaginal arteries (CVA) of uteri removed from women of different ages were studied. The uterine artery divides into an ascending and descending branch at the level of the middle third of the cervix of the uterus. The descending branch of the uterine artery of the CVA presents a few variants of origin from the common trunk; the diameter of its trunk varies at different ages. Between the basin of the CVA and the basin of the ascending branch of the uterine artery there exists an area devoid

Card 1/2

BERMAN, A.B.; NEYMAN, V.S.

Estimating the porosity of sandstone reservoirs saturated with fresh water. Neftegaz. geol. i geofiz. no.10:42-47 '63. (MIRA 17:9)

POKROVSKIY, Vasiliy Fedorovich; BERMAN, A.G., red.

[Planning technological preparation of production in the machinery industry] Planirovanie tekhnicheskoi podgotovki proizvodstva v mashinostroenii. Leningrad, 1965. 47 p. (MIRA 18:10)

HERMAN, A. G. AND G. IA. IAKOVLEV

Organizatsiia ravnomernoi raboty mashinostroitel'nogo zavoda. Moskva, Mashgiz, 1949. 129 p. illus

Bibliography: p. 127-128

Organization of uniform work in a machine-building plant.

DLC: TJ1135.B47

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

BERMAN,A.G.

MachineryIndustry

Most important conditions for technical progress,
Vest. mash., 32, no. 5, 1952.

Monthly List of Russian Accessions, Library
of Congress, October 1952, UNCLASSIFIED.

BERMAN, A.G., kandidat ekonomicheskikh nauk, redaktor; SHUKHGAL'TER, L.Ya., kandidat tekhnicheskikh nauk, retsenzent; POL'SKAYA, R.G., tekhnicheskiy redaktor.

[Rhythmic production in machine construction] Ritmichnost' proizvodstva v mashinostroenii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1954. 359 p. [Microfilm] (MLRA 7:11)
(Machinery industry)

AKOPOV, Ye.K.; BERMAN, A.G.

Interrelation of lithium, sodium, potassium and thallium sulfates in melts. Dokl.AN SSSR 96 no.3:523-526 My '54. (MLRA 7:6)

1. Kubanskiy sel'skokhozyaystvennyy institut i Rostovskiy na Donu gosudarstvennyy universitet im. V.M.Molotova. (Sulfates) (Solutions, Solid)
Predstavleno akademikom S.I.Vol'fkovichem.

Berman, A. G.

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical Analysis. Phase Transitions B-8

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26144

Author : V.I. Posypayko, A.I. Kislova, A.G. Berman
Title : Ternary Systems of Lithium Metaborates, Chlorides, Sulfates and Tungstates

Orig Pub : Zh. neorgan. khimii, 1956, 1, No 4, 806-819

Abstract : The ternary systems $LiBO_2$ (I) - LiCl (II) - Li_2SO_4 (III), I - II - Li_2WO_4 (IV) and I - II - IV were studied by the visual-polythermal method. The binary system I - II representing a simple eutectic system with the eutectic point at 572° and 19% of I was studied for the first time. Nine ternary interior cross-sections in the system I - II - III were studied, their graphs and tabulated data were shown. The crystallization area consists of four fields: of fields of components and of the compound $3Li_2SO_4 \cdot 2LiBO_2$. There are one ternary eutectic point (the composition is everywhere given in mol.%): 2.5% of I and 37.5% of II at 472°, and a transition point at 660° and 15% of I and 77.5% of III. The system I - III - IV is the upper base of the

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Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26144

prism of the quaternary system Li, K // BO_2, WO_4 and SO_4. The binary systems I - III, I - IV and III - IV were studied for the first time. The compound of the composition $3Li_2WO_4 \cdot 2LiBO_2$ decomposing when being melted was discovered in the first system, as well as the transition of I from the α-form into the β- form at 815° and 87.5% of I. These are in the binary system I - III a congruently melting compound $3Li_2SO_4 \cdot 2LiBO_2$ (V) at 742° and eutectic points at 737° and 31% of I. There is an eutectic in the binary system III - IV at 596° and 68% of III. Ten cross-sections were studied in the system I - III - IV, the graphs and the fields of components and binary compounds were shown. There are one ternary point at 590° and 5% of I and 71% of III and two transition points: one at 650° and 10% of I and 70% of IV, and another at 604° and 12.5% of I, 15% of IV and 72.5% of III. The system I - II - IV is a triangle of the prism of the quaternary system Li, K // BO_2, Bi, WO_4. The binary system II - IV, having an eutectic at 490° and 41.5% of

USSR/Thermodynamics. Thermochemistry. Equilibria. Physico-Chemical Analysis. Phase Transitions B-8

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26144

IV, was studied for the 1st time. Seven cross-sections were made in the system I - II - IV, the graphs, the tabulated data and the fields of crystallization of components and V were shown. There are a ternary eutectic point at 482° and 7% of I and 60% of II and a transition point at 650° and 20% of II and 10% of I. The projections of the diagrams of state of all the ternary systems on the composition triangle are shown.

Card : 3/3

BERMAN, A.G.

Planning system for complete set production. Av.prom. 26 no.8: 69-74 Ag '57. (MIRA 15:4)
(Instrument industry)

BERMAN, A.G.

25(5) PHASE I BOOK EXPLOITATION SOV/1212

Potochnyye metody proizvodstva v seriynom mashinostroyenii i priborostroyenii (Assembly-line Methods in Serial Manufacturing of Machinery and Tools) Moscow, Mashgiz, 1958. 325 p. 3,500 copies printed.

Eds.: Berman, A.G., Candidate of Economic Sciences, and Neymark, A.I., Candidate of Technical Sciences; Eds. of Publishing House: Varkovetskaya, A.I., and Chfas, M.L.; Tech. Ed.: Sokolova, L.V.; Managing Ed. for Literature on Technical Machine Building (Leningrad Division, Mashgiz): Naumov, Ye. P.

PURPOSE: This book is intended for production managers, dispatchers, and engineering personnel engaged in the production of machinery and instruments. It may also be useful to scientific workers, planning personnel, and vtuz students specializing in industrial engineering.

Card. 1/8

COVERAGE: The book contains background material for the 1958 Conference on Methods of Line Production scheduled under the auspices of the Committee on Production Organization of the Leningrad regional administration NTO of the machinery manufacturing industry. The Committee's recommendation for this Conference was prompted by the inadequate development of line production methods and techniques in Leningrad plants specializing in series [large-scale] production of machinery and instruments. Theoretical studies based on Soviet industrial practices are presented in Part I of this book. Part II discusses the introduction and development of line production methods in Leningrad plants while Part III reviews foreign literature and some of the more pertinent problems of line production as seen by foreign authors. There are no references.

TABLE OF CONTENTS:

Assembly-line Methods in Serial Manufacturing (Cont.) SOV/1212

Card 6/8

BERMAN, Aron Grigor'yevich, kand. ekon. nauk; OKUN', Arkadiy Sergeyevich, inzh.; NEYMARK, M.M., red.; FOMICHEV, A.G., red.izd-va; BOL'SHAKOV, V.A., tekhn. red.

[Overall mechanization and improvement of the organization of production in the "Radist" Factory] Kompleksnaia mekhanizatsiia i sovershenstvovanie organizatsii proizvodstva na zavode "Radist." Leningrad 1961. 20 p. (MIRA 16:3)
(Radio industry)

BERMAN, A.M.; VINOGRADOVA, T.P. (Moskva)

Characteristics of fibrous dysplasia of facial bones of the cementoma type. Arkh. pat. 27 no.8:31-35 '65. (MIRA 18:10)

1. Patologoanatomicheskoye otdeleniye (zav. - prof. T.P.Vinogradova) TSentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V.Volkov) Ministerstva zdravookhraneniya SSSR.

BERMAN, A.I.

AID P - 1380

Subject USSR/Electricity

Card 1/1 Pub. 26 - 7/30

Authors : Berman, A. I., Eng., and Prochayev, M. N., Eng.

Title : Mounting of reinforcement frames of reinforced concrete frameworks.

Periodical : Elek. Sta., 2, 25-28, F 1955

Abstract : The authors represent graphically and describe four different mounting schemes for the construction of the frames of the main buildings of electric power stations. 4 drawings.

Institution: None

Submitted : No date

ALEKSEYEV, P.A., kand.med.nauk; BERMAN, A.I.

Course of measles in conjunction with epidemic hepatitis. Med.zhur. Uzb. no.1:24-27 Ja '59. (MIRA 13:2)

1. Iz kliniki detskikh infektsionnykh bolezney (zaveduyushchiy - prof. Kh.A. Yunusova) Tashkentskogo gosudarstvennogo meditsinskogo instituta i iz Tashkentskoy detskoy infektsionnoy bol'nitsy No.2 (glavnyy vrach - Kh.M. Munovarova).
(MEASLES) (HEPATITIS, INFECTIOUS)

ALEKSEYEV, P.A., kand. med. nauk; BERMAN, A.I.

Clinical course and diagnosis of jaundice due to salmonellosis in children. Pediatriia 37 no.5:52-56 My '59. (MIRA 12:8)

1. Iz 2-y detskoy infektsionnoy bol'nitsy Tashkenta (glavnyy vrach Kh. M. Munavarova).
(JAUNDICE, in inf. & child
caused by salmonellosis, clin. course & diag. (Rus))
(SALMONELLA INFECTIONS, in inf. & child
causing jaundice, clin. course & diag (Rus))

BERMAN, A.I.; MUNAVAROVA, Kh.M.

Clinical treatment of the pontine form of poliomyelitis in children. Med. zhur. Uzb. no.1:34-38 Ja '62. (MIRA 15:3)

1. Iz II detskoy infektsionnoy bol'nitsy g. Tashkenta (nauchnyy rukovoditel' dotsent A.R. Rakhimdzhanov).
(POLIOMYELITIS)

LOGINOVA, N.S., dotsent; BERMAN, A.I.

Clinical course of typhoid fever in infants. Med. zhur. Uzb. no.9:25-29 S '62. (MIRA 17:2)

1. Iz kliniki detskikh infektsiy (zav. - prof. Kh.A. Yunusova) Tashkentskogo gosudarstvennogo meditsinskogo instituta i 2-y detskoy infektsionnoy bol'nitsy (glavnyy vrach - Kh.M. Munavarova) Tashkenta.

BERMAN, A. K.

USSR/Engineering - Cutting tools

Card 1/1 : Pub. 103 - 19/23

Authors : Berman, A. K.

Title : A cutting tool with mechanically-attached cutting edges

Periodical : Stan. i instr. 8, 36-37, Aug 1954

Abstract : The "Elektrosila" factory produced a cutting tool incorporating mechanically-attached cutting bits. General description of the tool, and methods for attaching cutting bits are given, together with their specifications and application. Drawings; diagrams.

Institution : .....

Submitted : .....

Knife Steels for Rapid Cutting.

the groove is not touched by chips and cuttings at all, the groove can be flat, which makes repeated grinding possible and increases the stability of the steel. (With 5 Illustrations and 1 Table).

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

Card 2/2

BERMAN, A.K., inzhener.

Tables for determining the surface smoothness of machined workpieces. Standartizatsiia, no.5:78-80 S-O '56. (MIRA 10:1)

1. Zavod "Elektrosila" imeni S.M.Kirova, Leningrad.
(Surfaces(Technology)) (Machine-shop practice)

BERMAN, A.K.

121-7-17/26

AUTHOR BERMAN, A.K.

TITLE A Ball-Vibration Reducer.
(Sharikovyy vibrogasitel.- Russian)

PERIODICAL Stanki i Instrument 1957 Vol 28, Nr 7, pp 35-35

ABSTRACT In a Leningrad factory such a vibration reducer is used for the reduction of vibrations in the preparation of long slender rolls of stainless steel of 68 mm ø and 1600 mm length, after all other auxiliary means had failed in this case. Its application makes it possible to obtain a diameter tolerance of 0,06 mm and a surface cleanness of class 7-8, while the working capacity was still increased. The vibration reducer consists of two main parts: of the vibration reducer in the restricted sense and a back-rest which is fastened to the support slide. The height of the back-rest has to be adapted to the center height of the lathe and is therefore adjustable within certain limits. The reducer is adjusted in the following manner: The balls are brought close to the work piece and then the reducer holder is fixed in the back-rest; attention has to be paid to the fact that the balls always have to follow the lathe. The lathe is then set in motion and the balls brought into

CARD 1/2

A Ball-Vibration Reducer.

contact with the work piece. At the beginning pressure of the reducer on the work piece is brought about by rotation of the nut and compression of the spring to 0,5 mm, after that the housing of the reducer is fixed by the screw. During the work pressure can be controlled by the screw. Compression of the spring by 1 mm corresponds to a pressure of 10 kg. Tests proved that in planishing with a cutting speed of 100 m/min and cutting thickness of 0,5 mm, as well as a feed of 0,2 mm/rotation and a ball of 10 mm, at a spring compression of 40-60 kg a surface cleanness of grade 7-8 was obtained.

ASSOCIATION: not given.
PRESENTED BY: -
SUBMITTED: -
AVAILABLE: Library of Congress.

CARD 2/2

AUTHOR: Berman, A.K., Engineer SOV-28-58-4-30/35

TITLE: Tables to Determine the Smoothness of Surfaces of Parts (Tablitsy dlya opredeleniya chistoty poverkhnostey detaley)

PERIODICAL: Standartizatsiya, 1958, Nr 4, pp 86 - 87 (USSR)

ABSTRACT: Tables for determining the smoothness of surfaces of 3 different grades of accuracy were set up at the "Elektrosila" Plant imeni S.M. Kirov. The tables for the 1st and 2nd degree are shown. There are 2 tables.

ASSOCIATION: Zavod "Elektrosila" im. S.M. Kirova ("Elektrosila" Plant imeni S.M. Kirov)

1. Surfaces--Inspection 2. Surfaces--Tables

Card 1/1

SOV-117-58-8-17/28

AUTHOR: Berman, A.K., Engineer

TITLE: Live Center (Vrashchayushchiysya tsentr)

PERIODICAL: Mashinostroitel', 1958, Nr 8, pp 36-37 (USSR)

ABSTRACT: In the Leningrad Plant "Elektrosila" a live center for the machining of details of 3 tons has been developed. This device is used for reducing vibrations arising during the processing of the heavy details. The spindle rests on 3 radial-supporting ball bearings (series 46306) which are calculated for a radial stress of 1,300 kg, an axial stress of 1,300 kg, and 7,500 rpm. The live center has been installed on a large turning lathe. The processing of runners of 3 tons and a length of 2,500 mm is carried out at 200 spindle revolutions per min. The device has been in operation since 1955 without repair. There is 1 diagram.

ASSOCIATION: Leningradskiy zavod "Elektrosila" (Leningrad Plant "Elektrosila")

1. Metals - Machining - Vibration 2. Vibration - Preventive measures 3. Machine tools - Equipment

Card 1/1

BERMAN, A.M.

BERMAN, A.M.; POLYAK, M.S. (Kashira)

Involvement of the esophagus in Osler's disease. Arkh.pat. 19 no.12:72-74 '57. (MIRA 11:2)

1. Iz Kashirskoy rayonnoy bol'nitsy (glavnyy vrach I.L.Kozello) i patomorfologicheskogo otdela Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo instituta (zav. - prof. S.B. Baynberg)

(POLYCYTHEMIA VERA, compl.
esophageal hemorrh. in 14-year-old girl)
(ESOPHAGUS, hemorrh.
in polycythemia vera in 14-year-old girl)

SOV/110-59-8-22/24

AUTHOR: Berman A.M., Engineer.

TITLE: Automatic Controller Type RU4-16A

PERIODICAL: Vestnik elektropromyshlennosti 1959, Nr 8, pp 75-76 (USSR)

ABSTRACT: This is a catalogue-style description of equipment to control thermal and other manufacturing processes. It is for use in conjunction with automatic measuring instruments having built-in rheostatic output controllers and with named types of operating mechanism. Controller type RU4-16A gives an output proportional to the control signal; various amplifications and time delays are available. The power consumption is 50 VA and the weight 14 kg. The operation and characteristics of the instrument are briefly described. There is 1 figure.

Card 1/1

BERMAN, A.M.

Problem of bone lesions in podagra. Ortop.travm.i protez. 21 no.6:69-71 Je '60. (MIRA 13:12)
(GOUT)

VINOGRADOVA, T.P.; BERMAN, A.M.

Chondromyxoid fibroma of the bones. Khirurgiia 36 no.6:128-131 Je '60. (MIRA 13:12)

(BONES--TUMORS)

BERMAN, A.M.

Thermostat for drying cabinets for determining moisture content in materials. Priborostroenie no.3:24-25 Mr '62. (MIRA 15:4)
(Thermostat)

BERMAN, A.M.

Regulator of temperature in drying cabinets for the determination of moisture. Ratsionalizatsiia no.8:25 '62.

BERMAN, A.M.; LIRTSMAN, V.M. (Moskva)

Pathological anatomical changes in the femur heads in ununited medial fractures and false joints of the neck. Arkh. pat. no.1: 54-60 '63. (MIRA 17:10)

1. Iz patologoanatomicheskogo otdela (zav.- zasluzhennyy deyatel' nauki prof. T.P. Vinogradova) TSentral'nogo instituta travmatologii i ortopedii Ministerstva zdravookhraneniya SSSR (dir.- doktor med. nauk M.V. Volkov).

BERMAN, A.M. (Moskva)

Pigmentary villous synovitis. Arkh. pat. 27 no.3:48-53 '65.
(MIRA 18:5)

1. Patologoanatomicheskoye otdeleniye (zav. - prof. T.P. Vinogradova) TSentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V. Volkov) Ministerstva zdravookhraneniya SSSR.

MAKHSON, N.Ye.; BERMAN, A.M.

Xanthomatosis of the Achilles tendons. Ortop., travm. i protez. 26 no.5:58-61 My '65. (MIRA 18:10)

1. Iz TSentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V. Volkov).

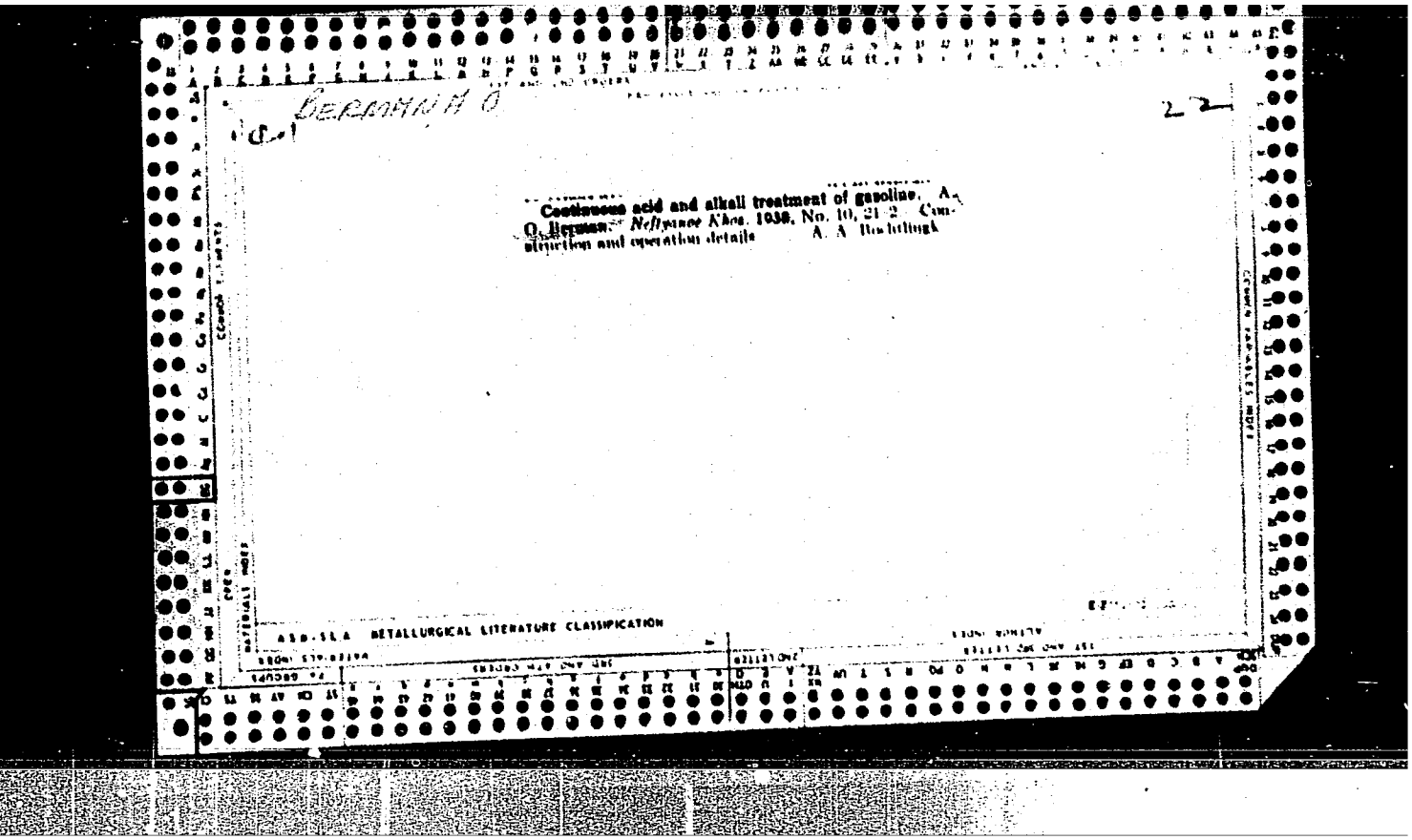
BERMAN, A.N.

EXCERPTA MEDICA Sec.12 Vol.12/4 Ophthalmology April 58

598. EYE CHANGES IN BOTKIN'S DISEASE (EPIDEMIC HEPATITIS)(Russian text) - Berman A.N. Dniepropetrovsk - VRAC.DELO 1957, 1 (21-24)

The eye changes occurring in 41 patients with Botkin's disease were studied. Thirty-two patients had anisocoria which developed 4 to 15 days after onset of the illness and lasted for 6 to 30 days. Fourteen patients developed exophthalmos 9 to 11 days after the onset of the illness, and its appearance occasionally heralded a new attack of the disease. Two patients developed Horner's syndrome at the 6th or 7th day. Sixteen cases developed irregularity of the pupils and 13 a diminished corneal sensitivity and occasionally complete loss of sensation. A number of cases developed fundal changes, mainly vascular changes such as dilatation and congestion of the venous plexus, and occasionally arterial narrowing, etc. Subjective and objective symptoms in the course of hepatitis often accompany the vascular changes in the fundus oculi and the other changes mentioned.

Guseva - Moscow (S)

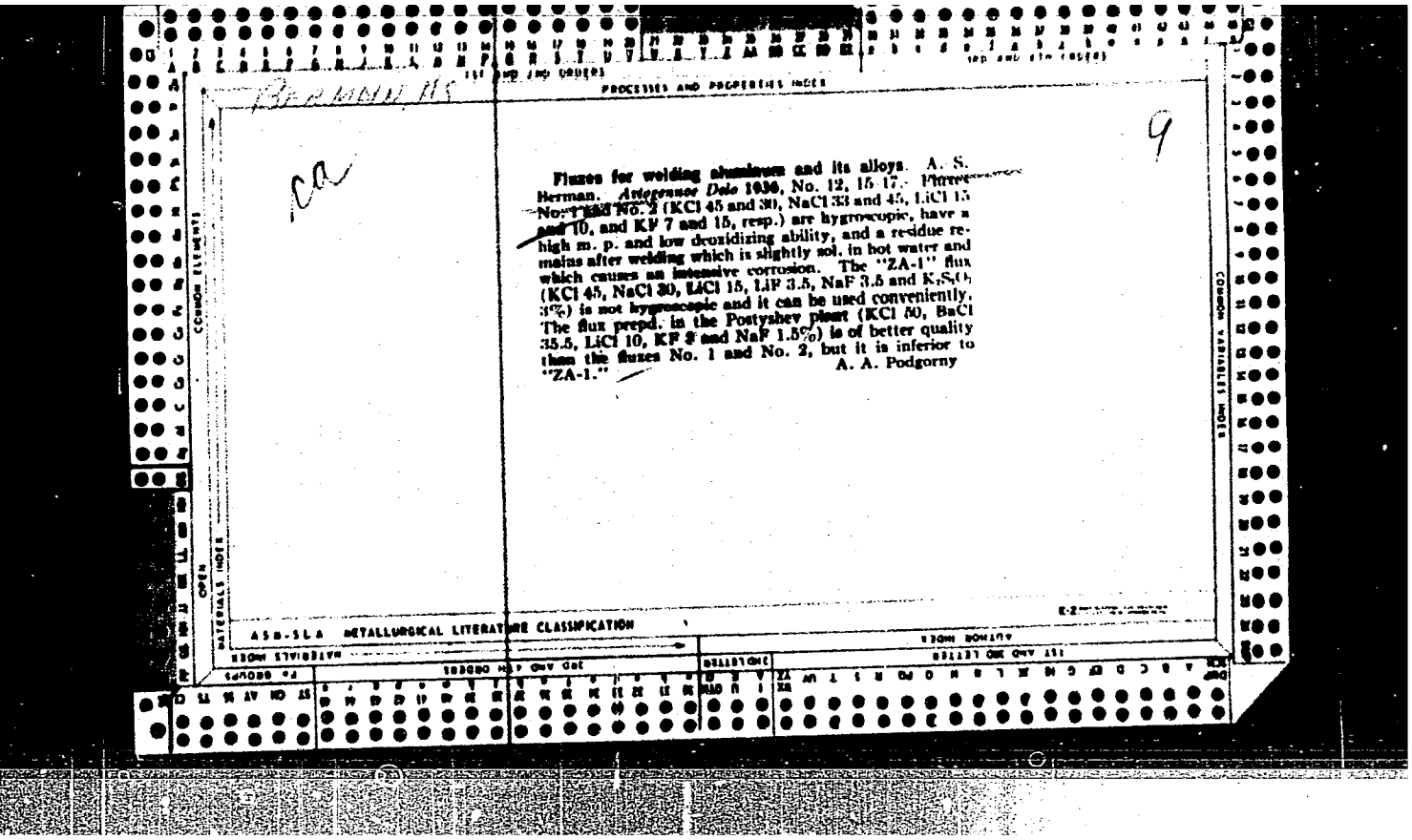


APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205010010-2"

BERMAN, A.P.; KRYMOV, I.F.

Methods for exploiting the production capacities of alcohol plants more effectively. Spirt.prom. 26 no.3:35-37 '60.
(MIRA 13:10)

(White Russia--Distilling industries)



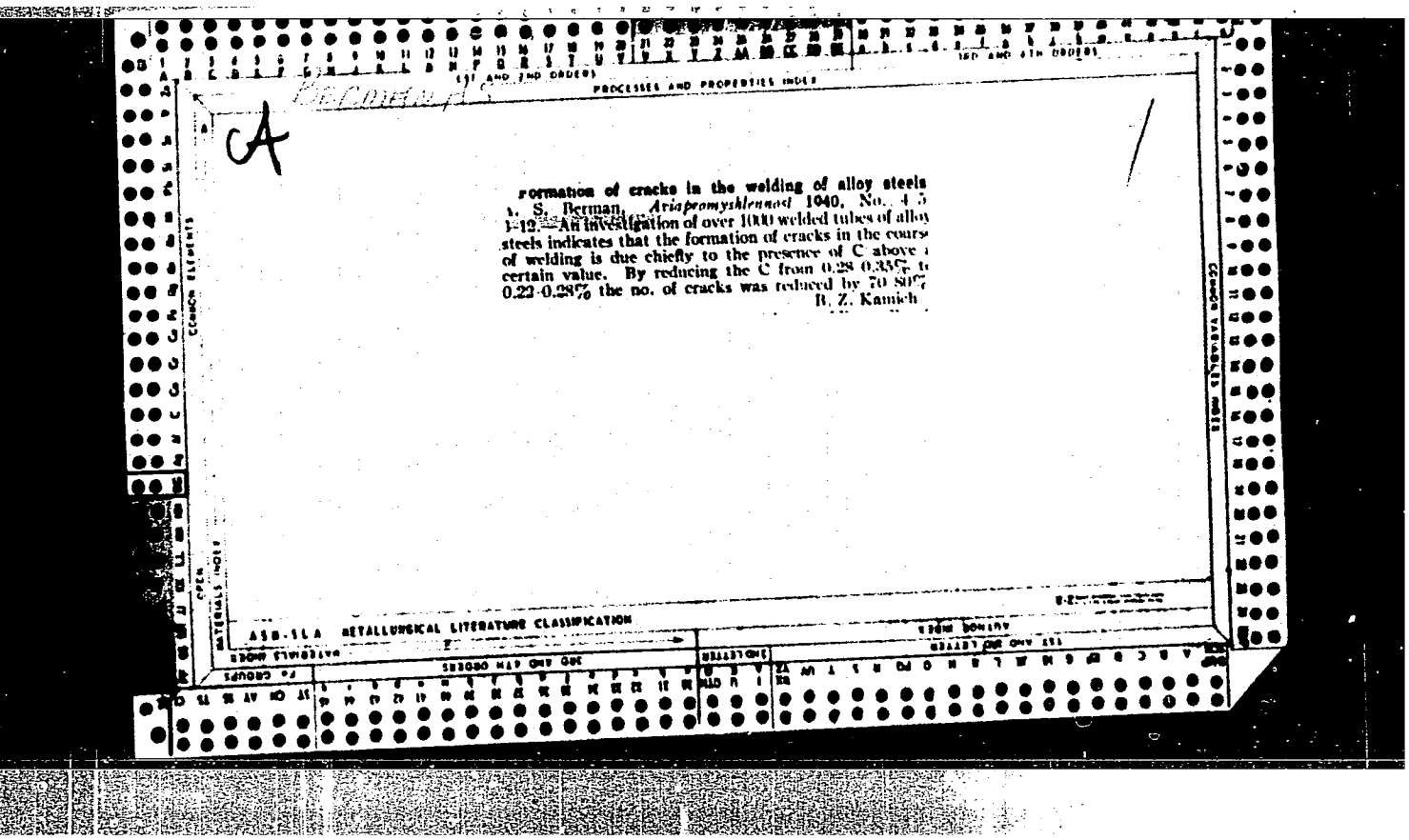
PROCESSES AND PROPERTIES INDEX

9

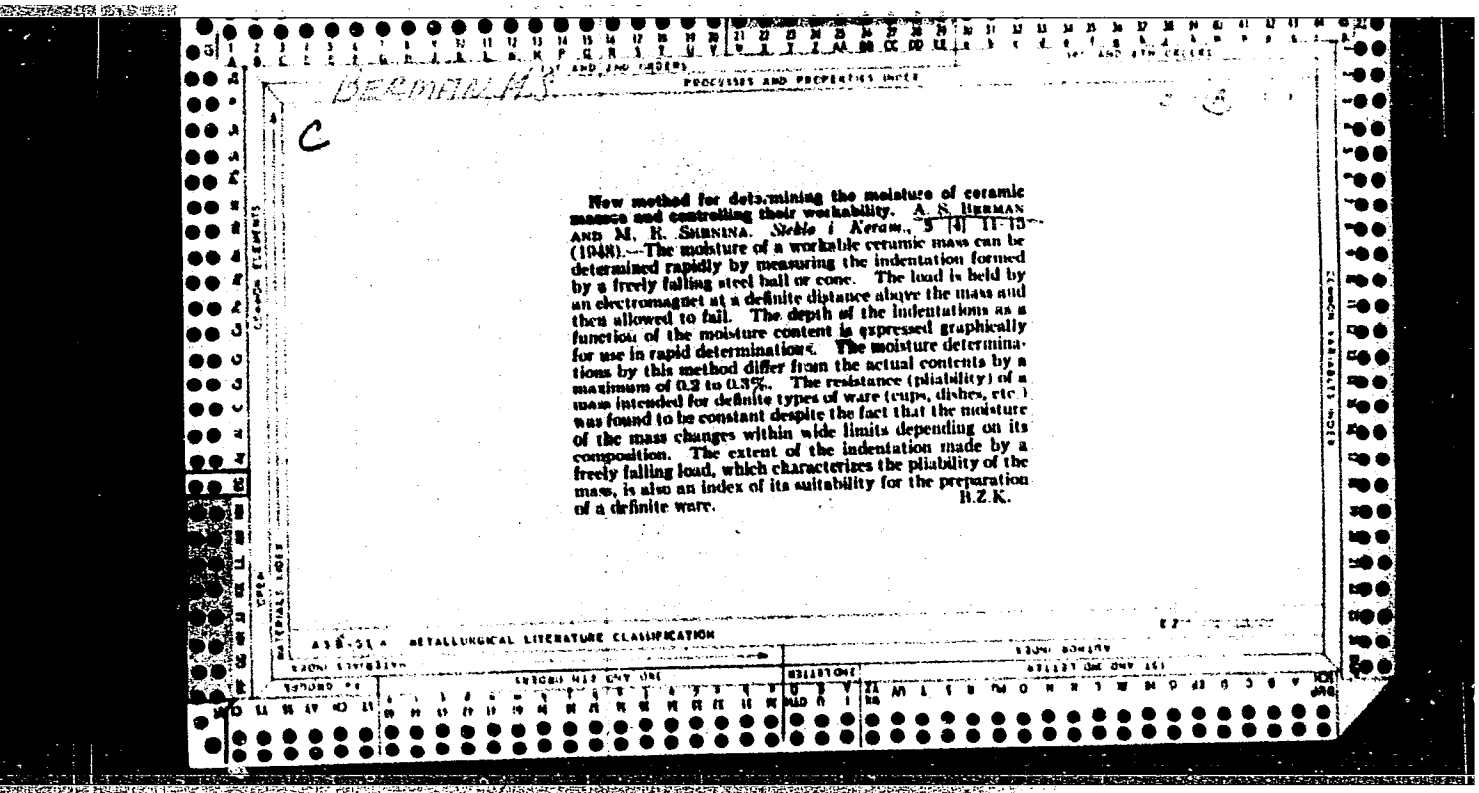
Fluxes for welding aluminum and its alloys. A. S. Herman. *Autogennoe Delo* **1936**, No. 12, 15-17. Flux No. 1 and No. 2 (KCl 45 and 30, NaCl 33 and 45, LiCl 15 and 10, and KF 7 and 15, resp.) are hygroscopic, have a high m. p. and low deoxidizing ability, and a residue remains after welding which is slightly sol. in hot water and which causes an intensive corrosion. The "ZA-1" flux (KCl 45, NaCl 30, LiCl 15, LiF 3.5, NaF 3.5 and K_2SO_4 3%) is not hygroscopic and it can be used conveniently. The flux prepd. in the Postyshev plant (KCl 50, BaCl 35.5, LiCl 10, KF 2 and NaF 1.5%) is of better quality than the fluxes No. 1 and No. 2, but it is inferior to "ZA-1."

A. A. Podgorny

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



formation of cracks in the welding of alloy steels
S. Berman, *Aviapromyshlennost* 1940, No. 4-5
1-12.—An investigation of over 1000 welded tubes of alloy
steels indicates that the formation of cracks in the course
of welding is due chiefly to the presence of C above a
certain value. By reducing the C from 0.28-0.35% to
0.23-0.28% the no. of cracks was reduced by 70-80%
B. Z. Kamich



BERMAN A.S.

C

New method for determining the moisture of ceramic masses and controlling their workability. A. S. BERMAN AND M. R. SHISHINA. *Steklo i Keram.*, 5 [4] 11–15 (1948).—The moisture of a workable ceramic mass can be determined rapidly by measuring the indentation formed by a freely falling steel ball or cone. The load is held by an electromagnet at a definite distance above the mass and then allowed to fall. The depth of the indentations as a function of the moisture content is expressed graphically for use in rapid determinations. The moisture determinations by this method differ from the actual contents by a maximum of 0.2 to 0.3%. The resistance (pliability) of a mass intended for definite types of ware (cups, dishes, etc.) was found to be constant despite the fact that the moisture of the mass changes within wide limits depending on its composition. The extent of the indentation made by a freely falling load, which characterizes the pliability of the mass, is also an index of its suitability for the preparation of a definite ware. B.Z.K.

85488

B/135/60/000/012/005/010
A006/A001

1.5400 also 2708

AUTHOR: Berman, A.S., Engineer

TITLE: Welding in Shielding Gases

PERIODICAL: Svarochnoye proizvodstvo, 1960, No. 12, pp. 19-23

TEXT: The development of welding processes in shielding gases is shown in an exhibition which demonstrates that 1) the introduction of semi-automatic and automatic welding in shielding gases applied to copper, aluminum, magnesium and titanium alloys and structural steels has come into extended use, 2) new technological processes and equipment have been developed for welding chemically active metals ensuring high corrosion resistance of welds, 3) possibilities have been found and methods developed for butt welding 0.2 mm thick material, 4) devices have been designed for the automatic tracking and remote control of welding processes. Equipment exhibited for manual, semi-automatic and automatic welding includes: the АДСВ -2 (ADSV-2) and the АДСП -2 (ADSP-2) tractors completed by the АГВ-2 (AGV) and the АГП-2 (AGP-2) welding heads, intended for welding over 0.8 mm thick parts with currents up to 400 amp and up to 10-80 m/hour welding speed. The ADSV-2 tractor operates on a-c and d-c, the ADSP-2 tractor on d-c.

Card 1/9

85468
S/135/60/000/012/005/010
A006/A001

Welding in Shielding Gases

The АДСПВ (ADSPV) tractor (Figure 1) can be used on a-c and d-c as well and will be widely employed in pilot plants. The АДТС-5 (ADTS-5) unit (Figure 2) is intended for argon-arc spot welding of overlap joints on stainless and structural steels and other metals of not over 2 mm thickness, with tungsten electrodes of 2, 3 and 4 mm in diameter and up to 300 amp current. The АРК-2 (ARK-2) (Figure 3) automatic machine can be used for welding large-size work of aluminum and magnesium alloys and other metals, with consumable and unconsumable electrodes, and a-c or d-c. The УСА-500 (USA-500) and the АДМТ-300 (ADMT-300) automatic machines may be used for welding flux or in shielding gases. Among the manual burners, the ГРАД (GRAD) type burners can be recommended. They are light, small-sized, fully insulated, with internal water cooling and screwed-on ceramic tips. The УДАР-500 (UDAR-500) unit for a-c manual argon-arc welding of aluminum and its alloys with tungsten electrodes can also be used for welding special steels. Feed voltage is 220 or 380 v; 34 kvamp power; rated current - 500 amp; electrode diameter - 2-10 mm; thickness of the work to be welded - 1.5 mm and above. The ПДА-300 (PDA-300) semi-automatic machine is employed for arc welding of aluminum and its alloys with consumable electrode. Reliable operation is ensured by a push-pull system of electrode feed and an improved nozzle cooling system. The diameter of the filler wire is 1.6-2.0 mm; the wire feed rate is 1.5-1.7 m/min; welding current is

Card 2/9

Welding in Shielding Gases

300 amp; the pistol weighs 900 g. A new technology is demonstrated for welding aluminum alloys on the TC -17M (TS-17M) tractor with consumable electrode and combined argon-air shield. This method improves the shielding medium and will reduce porosity of the seam metal for some aluminum alloys. The stationary A-638 machine is used for argon-arc welding with unconsumable electrode without filler metal, of copper parts and for welding circular seams on parts of 20-300 mm in diameter and up to 200 mm height. The machine is equipped with a set of exchangeable tongs for the fastening of electrodes and a set of gas-supplying nozzles. The welding current is up to 250 amp; welding speed is 0.85 to 34.5 rpm. ARCP - 9000 (GSR-9000), a 30 -7.5 (ZP-7,5) generator or a BC-200 (VS-200) rectifier are used as feed sources. The equipment for welding chemically active metals includes: the experimental UO 20-20 (I020-20) unit for vacuum-tight welding in argon of metal parts and units of electric-vacuum devices, up to 280 mm in diameter and up to 180 mm height. The rotation speed of the spindle is 2-10 rpm, the motion speed of the shell is 40 mm/sec. The vacuum under the shell is not below $4 \cdot 10^{-2}$ mm Hg. The argon pressure under the shell is up to 0.2 atm; maximum welding current is 200 amp. The BUAC-1 (VUAS-1) unit (Figure 6) is used for automatic welding of straight or circular seams with consumable or tungsten electrode in a gas shield. The chamber volume is 0.38 m^3; limit vacuum is 10^{-4} mm Hg; the length of flat

Card 3/9

Welding in Shielding Gases

parts to be welded is 600 mm, the diameter of pipes up to 300 mm. Welding speed is 5-50 m/hour; filler wire feedrrate 10-100 m/hour and of electrode wire - 100-800 m/hour. Welding is made on a-c or d-c up to 300 amp. Materials of 0.2-0.3 mm thickness can be butt welded using a pulse arc on a unit shown in Figure 7 operating on d-c and 50 amp maximum current; duration of pulse is 0.06-0.9 sec; duration of the time lag is 0.04-0.8 sec; tungsten electrode diameter is 1-1.6 mm. In a section of the exhibition, the technology and equipment for welding fixed pipe butts is demonstrated, including welding of steel pipes with unconsumable electrodes; automatic welding of steel pipes with gas, cooling water and current supplied without hoses or cables; welding of fixed thin-walled aluminum pipe butts of 20 mm in diameter with tungsten electrodes; welding of fixed thick-walled pipe butts of 377 mm in diameter with consumable electrodes (wall thickness 14 mm); automatic argon arc welding with consumable electrodes of fixed thick-walled aluminum alloy pipes. In automatic welding of aluminum pipes operation is facilitated and stable quality of the seam is ensured, independent of the spatial position of the joints. The head of the welding machine rotates around the pipe. Welding of curved seams is carried out on machines with remote control of the process using a television device. The ГСС-1 (GSS-1) unit (Figure 9) is used for arc welding of curved seams with tungsten electrode in shielding gases with

Card 4/9