"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

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23281
S/135/61/000/007/004/012
A006/A106

AUTHORS: Brodskiy, A. Ya., Candidate of Technical Sciences, Baryshev, V. M., Rakhmanov, A. S., Engineers

TITLE: On the weldability of В92Т (V92T) grade aluminum alloy

PERIODICAL: Svarochnoye proizvodstvo, no. 7, 1961, 13-17

TEXT: Results are presented from the first stage of investigations on the weldability of thermally strengthened V92T aluminum alloy. The work was carried out with the participation of L. S. Livshits, Candidate of Technical Sciences, from VNIIST, for the purpose of evaluating the applicability of this alloy in welded structures. The tests were made with 10 mm thick V92T-alloy sheets welded by argon-arc process with non-consumable electrode and by automatic and semi-automatic process with consumable electrode. Plates of 130 x 130 mm dimensions with V-shaped beveling of edges were welded on dismountable steel backing plates. The filler and electrode wires were of the same composition as the base metal. The content of the basic alloying components in the alloy was 3.9% Mg, 2.7% Zn, 0.8% Mn. From two chemical methods of cleaning the wire, etching in 30% ortho-phosphoric acid solution with small additions of potassium bichromate, for 20 min,

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A006/A106

On the weldability ...

at 45°C, assured reliable surface treatment of the wire. Manual argon-arc welding was performed on a УДАР-300 (UDAR-300) machine. The seams were applied in 2 and 3 layers at 280-300 amps current, 15 l/min argon consumption, 6 mm tungsten electrode diameter, 4 mm diameter of the filler wire and 70° chamfering angle. Semi-automatic and automatic welding was made on the ПШП-10 (PShP-10) semi-automatic and the АРК-1 (ARK-1) automatic machines. The semi-automatic welding conditions were: 270-280 amp current, 22-24 v arc voltage, 20 l/min argon consumption, 70° chamfering angle. Conditions for automatic welding were: 300-320 amps current intensity in single-layer welding and 280-300 amps in double-layer welding; 22-24 v arc voltage 20 l/min argon consumption; speed of welding single-layer joints 17-19 m/h; for welding the first layer of double-layer joints 28-30 min/h, and for welding the second layer 22-24 m/h; total chamfering angle 60°. The electrode was located vertically. Mechanical properties of the welded joints were determined on standard specimens with reinforced welds. Toughness of the weld metal, of the fusion zone metal and of the heat-affected zone were determined. The experiments showed that the mechanical properties of welded butt joints on 10 mm thick V92T specimens, performed by argon-arc method with consumable electrode were below those of joints argon-arc welded with non-consumable electrodes. The strength of welded butt joints of medium thickness is 90-95% of the base metal

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A006/A106

On the weldability ...

strength after three-month natural aging. Therefore manual argon-arc welding with tungsten electrode can be recommended for important medium-thick V92T alloy parts. This alloy is somewhat more prone to pore formation than AMg6 alloy in particular when welded with consumable electrode. The relative strength of joints produced by argon arc welding with consumable electrode is 80%. Consequently, this method for welding V92T alloy must presently be limited. Natural aging of the weld metal and the heat-affected zone of welded butt joints lasts for 3 months and proceeds particularly intensively during the first month after welding. As a result of three-month natural aging the properties of the weld produced by argon-arc welding with non-consumable electrode and of the heat affected zone, approach the properties of the base metal in its initial state. The process of natural aging of weld joints is practically completed within three months. The V92T alloy is sensitive to stress concentration. For this reason the surface of the weld joint should pass smoothly into the base metal. There are 9 figures.

ASSOCIATIONS: TsNII stroitel'nykh konstruktsiy AS i A SSSR - TsNII of Building Constructions of AS and A SSSR - (Brodskiy and Baryshev); VNIIST (Rakhmanov)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

31443

S/125/61/000/012/008/008
D040/D112

1.2300 1573

AUTHOR: Brodskiy, A.Ya.

TITLE: Application of argon-arc welding in manufacturing aluminum structures in Czechoslovakia

PERIODICAL: Avtomaticheskaya svarka, no. 12, 1961, 81-85

TEXT: The author visited Czechoslovakia to acquaint himself with argon-arc welding of aluminum structures at the Děčín Plant of the Ministry of Heavy Machinery, and new welding equipment for this process at the Research Institute for Welding Equipment and Technology in Prague (VUSTS). Argon-arc welding is the only welding process used at the Děčín Plant, which produces equipment for the chemical industry, including containers made of aluminum, copper and stainless steel, and plans to build the first aluminum bridge in Czechoslovakia at the entrance to the Prague Kremlin on the basis of a project developed by Candidate of Technical Sciences V.Gorak. The bridge will be built from an alloy analogous to the Soviet АМг3 (AMg3), using electrode wire similar to the Soviet АМг5 (AMg5) grade. A plasma torch ("plasmotron"), designed by the Electric Welding Institute of the Ministry of Metallurgy in

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D040/D112

Application of argon-arc ...

Bratislava, is being used for cutting heavy aluminum sections at the plant. The torch is mounted on a roller carriage moved manually. The arc burns between a thoriated tungsten electrode and a water-cooled copper ring. Two welding generators connected in series, produce a d.c. current of 550 amps and 160 v for the torch which cuts 80 mm thick aluminum at a rate of 300 mm/min, the cut being 10 mm wide with quite smooth surfaces. The author describes the techniques used for welding both aluminum containers made from 16 mm thick elements as well as thin-wall structures (1-2 mm), and gives a few details on the pickling department, where the welding wire and fairly large aluminum elements are treated. The plant also tests and debugs new argon-arc welding equipment designed by the Research Institute for Welding Equipment and Technology. This Institute has developed argon-arc welders for manual, semiautomatic and automatic welding of aluminum and aluminum alloys. Its manual T150 and T350 welders are already being produced on an industrial scale. The T350 is similar to the Soviet УДАР-300 (UDAR-300) welder. Two new special nozzles for these welders are described and one, for strong current, is shown in an exploded-view photograph. The Institute has developed and is now testing the semiautomatic САП-400Б (SAP-400B) argon-

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Application of argon-arc ...

arc welder with a consumable aluminum electrode, serial output of which is planned for 1962, and is also testing a pilot unit of an automatic welder with a consumable electrode, in which the electrode wire runs from a vertically mounted wire coil at a distance from the welding head. The author expresses gratitude to the administrators of the above-mentioned organizations, and to Academician Gotsar, Candidate of Technical Sciences V. Gorak and Engineers V. Gromadko, Ya.Shveyde, Kinzel' and O.Kratsik. There are 4 figures. [Abstracter's note: All personalities mentioned in the text are Czechoslovakian].

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APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya.; CHZHAN SYU-CHZHI [Chang Hsiu-chih]

Effect of the conditions of argon-shielded arc welding of aluminum alloys with consumable electrodes, on weld surfaces. Avtom. svar. 14 no.3:27-31 Mr '61. (MIRA 14:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR.
(Aluminum alloys—Welding) (Protective atmospheres)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya.

Use in Czechoslovakia of argon-arc welding in the manufacture of aluminum structures. Avtom. svar 14 no.12:81-85 D '61. (MIRA 14:11)

(Czechoslovakia--Aluminum alloys--Welding)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya., kand.tekhn.nauk; TOLMACHEVA, N.V., inzh.

Investigating the weldability of nickel-free 14G2, 14KhGS, and 15GS low-alloy steel. Trudy TSNIISK no.4:134-210 (MIRA 15:2)

(Steel alloys--Welding)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya.

Manufacture of welded steel elements in Czechoslovakia. Prom. stroi. 39 no.11:56-3 of cover '61. (MIRA 14:12)
(Czechoslovakia--Steel, Structural)

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43270

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S/842/62/000/000/001/006
E191/E435

AUTHOR: Brodskiy, A.Ya., Candidate of Technical Sciences

TITLE: The weldability of aluminium alloys

SOURCE: Primeneniye svarki v stroitel'nykh konstruktsiyakh. Vses. konfer. po prim. svarki v stroi. konstr., 1961. Moscow, Gosstroyizdat, 1962. 29-70

TEXT: This is a survey of information both previously published and derived from original work at the TsNIISK at the Akademiya stroitel'stva i arkhitektury SSR (Academy of Building and Architecture of the USSR). The general properties of aluminium alloys are recited under the headings: Al-Mn, Al-Mg, Al-Mg-Si-avial', Al-Zn-Mg, Al-Cu-Mn, Al-Cu-Mg-duralumin and Al-Zn-Mg-Cu groups. In each group weldability is considered under the two headings of metallurgical and operational weldability. The first is the resistance against the formation of crystallization cracks, porosity and overheating of the fused metal. The second embraces the strength and ductility of welded joints under specified conditions of loading. Operational weldability differs for fusion and resistance welding. Weldability is determined largely in

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mechanical tests of welded joints and depends on design factors as well as the properties of the alloy. The information is presented in some graphs and tables, most of which list mechanical properties by alloy groups, types of joint and welding process. Soviet brands of aluminium alloys are considered exclusively. A final graph illustrates the weldability of 18 alloys divided into the seven groups listed above in terms of the strength, as a percentage of the parent metal strength, of the welded joint separately for thick and thin wall joints and in terms of the ductility as a percentage of the parent metal ductility. Alloys in the Al-Mn, Al-Mg and Al-Zn-Mg groups possess the best weldability. Some brands in the Al-Cu-Mn and Al-Cu-Mg groups have a satisfactory weldability. The alloys АМг61 (AMg61), В92Т (V92T), Д19 (D19), Д20 (D20) and M40-T-1 are recommended for applications in the building industry. The use of alloys in the Al-Mg-Si group in load carrying building structures is advisable, provided argon arc welding with a consumable electrode is used. Semi-automatic welding with a consumable electrode and mechanized tungsten electrode welding are possible under the



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E191/E435

The weldability of aluminium ...

best conditions. There are 13 figures and 32 tables.

ASSOCIATION: TsNIISK

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ALADAR-TURI, inzh.; BRODSKIY, A.Ya., kand.tekhn.nauk

Local heat treatment of resistance welded joints in 35GS steel reinforcement rods. Svar. proizv. no.6:9-11 Je '62. (MIRA 15:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy.

(Concrete reinforcement—Welding)
(Steel—Welding)

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SAVCHENKOV, V.A., kand.tekhn.nauk; TRUBILKO, V.I., inzh.; BRODSKIY, A.Ya., kand.tekhn.nauk; FRIDMAN, A.M., mladshiy nauchnyy sotrudnik

Weldability of St. 5ps capped reinforcement steel. Prom.stroi. no.10:51-53 '62. (MIRA 15:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut metallov (for Savchenkov, Trubilko). 2. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR (for Brodskiy, Fridman).
(Concrete reinforcement—Welding)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya., kand.tekhn.nauk; TOLMACHEVA, N.V., inzh.

Automatic welding under flux of insertion pieces for sectional reinforced concrete constructions. Svar.proizv. no.11:28-31 N '62. (MIRA 15:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR.
(Concrete reinforcement—Welding)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya., kand.tekhn.nauk; TOLMACHEVA, N.V., inzh.

Grade 15GS low-alloy silicon-manganese steel for welded structural elements. Trudy TSNIISK no.13:232-247 '62. (MIRA 15:11)

(Steel, Structural--Testing)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya.; FRIDMAN, A.M.; MULIN, N.M.; LEYKIN, I.M.; ROSHCHINA, A.A.

Low-alloy ribbed reinforcing steel with large diameters (40 to 90 mm.). Bet. i zhel.-bet. 8 no.7:303-306 Jl '62. (MIRA 15:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR (for Brodskiy, Fridman). 2. Nauchno-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR (for Mulin). 3. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Leykin, Roshchina).
(Concrete reinforcement—Testing)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya., kand.tekkhn.nauk; TOLMACHEVA, N.V., inzh.

Weldability of low-alloy 15 GS manganese steel. Prom. stroi. 40 no.3:47-54 '62. (MIRA 15:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR.
(Manganese steel) (Welding research)

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BRODSKIY, A.Ya., kand.tekhn.nauk

New data about submerged arc welding of butt joints of reinforcement in assembly. Prom.stroi. 40 no.11:42-46 '62. (MIRA 15:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i akrhitektury SSSR.
(Concrete reinforcement—Welding)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya., kand. tekhn. nauk; FRIDMAN, A.M., inzh.; ZUBKOVA, M.S., red.; KASIMOV, D.Ya., tekhn. red.

[Investigating the welding of reinforcements for reinforced-concrete structures; welding of 35GS reinforcement steel] Issledovaniia svarki armatury zhelezobetonnykh konstruktsii; svarka armaturnoi stali marki 35GS. Moskva, Gosstroiizdat, 1963. 85 p. (MIRA 16:12)
(Concrete reinforcement) (Electric welding)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya., kand.tekhn.nauk; FRIDMAN, A.M., inzh.

Weldability of grades St.5 and 35GS steel strengthened by cold drawing. Bet.i zhel.-bet. 9 no.5:210-215 My '63. (MIRA 16:6)

(Concrete reinforcement—Welding)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A. Ya.; LOSHCHILOV, V. I.

Resistance of welded butt joints in large diameter 35GS steel reinforcement rods. Avtom. svar. 16 no.3:28-33 Mr '63. (MIRA 16:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR.

(Concrete reinforcement—Welding)
(Welding—Testing)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya., kand. tekhn. nauk; BALDIN, V.A., kand. tekhn. nauk; STRASHNYKH, V.P., red.izd-va; SHCHEVCHENKO, T.N., tekhn. red.

[Argon-arc welding of aluminum alloys for building elements; technological recommendations] Agrono-dugovaia svarka aliuminievykh splavov dlia stroitel'nykh konstruktsii; tekhnologicheskie rekomendatsii. Moskva, Gosstroiizdat, 1963. 179 p. (MIRA 17:1)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy. 2. Rukovoditel' sektora svarki TSentral'noy laboratorii metallokonstruktsiy TSentral'nogo nauchno-issledovatel'skogo instituta stroitel'nykh konstruktsiy (for Brodskiy). 3. Rukovoditel' TSentral'noy laboratorii metallokonstruktsiy TSentral'nogo nauchno-issledovatel'skogo instituta stroitel'nykh konstruktsiy (for Baldin).

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BRODSKIY, A. Ya.; PAL. R.

Effect of titanium on the weldability of 14G2T low-alloy steel. Avtom. svar. 17 no.4:15-20 Ap '64 (MIRA 18:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy.

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya., kand.tekhn.nauk; TOLMACHEVA, N.V., inzh.

Weldability of thermally hardened St.3kp steel. Svar.proizv. no.12:11-15 D '64. (MIRA 18:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy im. V.A.Kucherenko Gosstroya SSSR.

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A.Ya., kand. tekhn. nauk; FRIDMAN, A.M., inzh.

Resistance welding of hardened reinforcement rods made of carbon steel. Svar. proizv. no.3:5-8 Mr '65. (MIRA 18:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy.

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L 9055-66 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) IJP(c)

ACC NR: AP5027602 SOURCE CODE: UR/0135/65/000/011/0022/0024

AUTHOR: Tolmacheva, N. V. (Engineer); Brodskiy, A. Ya. (Candidate of technical sciences) 44,55 44,55

ORG: TsNIISK im. V. A. Kucherenko 44,55

46
45
B

TITLE: Weldability of thermally hardened 10G2S low-alloy steel 44,55,18 18

SOURCE: Svarochnoye proizvodstvo, no. 11, 1965, 22-24

TOPIC TAGS: weldability, steel, metal hardening, material fracture, metal aging, impact strength / 10G2S steel

ABSTRACT: The results of a study of the weldability of 10G2S low-alloy steel (0.1% C, 1.3-1.43% Mn, 1.0% Si, 0.023% S, 0.022-0.024% P, 0.12% Cu, 0.05-0.08% Cr, 0.06-0.08% Ni) are presented. The steel was first rolled into 12, 20 and 30 mm thick sheets and heat-treated (water quenching from 910-900°C with subsequent high-temperature tempering). Owing to thermal hardening, the ultimate strength of the steel was increased by 6%; yield point, by 20%; and impact strength, by 34-57%; and the critical temperature of brittleness dropped below - 60°C; in addition, proneness to aging decreased. The following factors of the steel's weldability were investigated: optimal linear energy of the welding arc, proneness of workhardened steel to aging in the zone of thermal influence, local variations of yield point and impact

Card 1/2 UDC: 621.791.011:669.15-194

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ACC NR: AP5027602

toughness in the zone of thermal influence in the butt-welded joint, and the proneness of steel in the zone of thermal influence to brittle fracture in the presence of natural and artificial stress concentrators. The welding and testing procedure is described in previous articles by the same authors (Brodskiy, A. Ya., Tolmacheva, N. V. In coll: Issledovaniya po metallicheskim konstruktsiyam, Gosstroyizdat, 1961; and Issledovaniya po stal'nym konstruktsiyam, Gosstroyizdat, 1962). The overall weldability of the steel was determined by comparing the test results for the weldments with the results of analogous tests for the base metal (in thermally hardened and hot-rolled state) as well as with official standards. Findings: the optimal linear energy of the welding arc for this steel is 5-10 kcal/cm. If the cooling rate of the near-weld zone is 4-18°C/sec, the steel's mechanical indicators (impact strength and yield limit) remain acceptable. Resistance to aging and to brittle fracture in the presence of natural and artificial strength concentrators is markedly higher for thermally hardened 10G2S steel than for hot-rolled steel of the same kind. E55A-type electrodes may be recommended for the welding of thermally hardened 10G2S steel. Orig. art. has: 4 figures, 2 tables.

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 001

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APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

ACCESSION NR: AP4029253 S/0125/64/000/004/0015/0020

AUTHOR: Brodskiy, A. Ya. (Candidate of technical sciences); Pal, R. (Candidate of technical sciences)

TITLE: Effect of titanium on the weldability of low-alloy 14G2T steel

SOURCE: Avtomaticheskaya svarka, no. 4, 1964, 15-20

TOPIC TAGS: steel, low alloy steel, 14G2T steel, 14G2 steel, 14G2T steel weldability, weldability

ABSTRACT: The weldability of 14G2T steel containing 0.06-0.15% Ti made at the Zaporozhstal' plant in basic open-hearth oxygen furnaces was experimentally investigated. The steel rolled at over 1,000C could not be used for welded structures due to its low toughness. However, after normalization (at 900–910C for 4 minutes per 1 mm thickness) the steel acquired high mechanical characteristics (tabulated), which varied but little with the plate thickness up to 40 mm,

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ACCESSION NR: AP4029253

and a high resistance to embrittlement; its resistance to crystallization-fissure formation manifested itself in welding in $CO_2$ or by coated electrodes. It was found that satisfactory 14G2T-steel welds can be obtained with an arc energy of 1,700–5,000 cal/cm, with 12-mm-thick plate which corresponds to the rate-of-cooling of the weld-affected zone of 60.0–5.5C/sec. Sv-08GS and Sv-08G2S electrode wires are recommended for $CO_2$ welding, and UONI-13/55A, for manual arc welding. The above results probably hold true for other low-alloy steels, such as 15GS, 14KhGS, 14KhGSN, 15KhSND. Orig. art. has: 4 figures and 3 tables.

ASSOCIATION: Tsentral'ny*y nauchno-issledovatel'skiy institut stroitel'ny*kh konstruktsiy (Central Scientific Research Institute of Building Structures)

SUBMITTED: 06Aug63 DATE ACQ: 27Apr64 ENCL: 00

SUB CODE: MM NO REF SOV: 003 OTHER: 002

Card 2/2

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BRODSKIY, A.Ya., kand. tekhn. nauk; BALDIN, V.A., kand. tekhn. nauk; Prinimal uchastiye BARYSHEV, V.M., inzh.

[Argon-arc welding of aluminum alloys for building structures; industrial recommendations] Argon-dugovaia svarka aliuminievykh splavov dlia stroitel'nykh konstruktsii; tekhnologicheskie rekomendatsii. Moskva, Gosstroiizdat, 1963. 179 p. (MIRA 17:10)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsii. 2. Rukovoditel' sektora svarki TSentral'noy laboratorii metallokonstruktsiy TSentral'nogo nauchno-issledovatel'skogo instituta stroitel'nykh konstruktsiy (for Brodskiy). 3. Rukovoditel TSentral'noy laboratorii metallokonstruktsiy TSentral'nogo nauchno-issledovatel'skogo instituta stroitel'nykh konstruktsiy (for Baldin).

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

BC

A-1

Raman spectra in solutions. I. Solutions of arsenic trichloride in carbon tetrachloride and benzene. A. E. [illegible], A. M. [illegible], and S. F. Bresuli (Ber. Ukraine. [illegible] Fursch. physikal. Chem., [illegible], 6, [illegible]).—Raman frequencies are given for $AsCl_3$, $CCl_4$, $C_6H_6$, a 30% solution of $AsCl_3$ in $CCl_4$ and a [illegible]% solution of $AsCl_3$ in $C_6H_6$. The $CCl_4$ and $C_6H_6$ frequencies appear unchanged in the mixtures, but the $AsCl_3$ vals. show deviations which are attributed to the polar character of $AsCl_3$.

R. S.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

BC

A-1

**Raman spectra of solutions. II. Solutions of arsenic trichloride in methyl and ethyl alcohols.**

A. M. Sack and A. E. Brodski (Acta Physicochim. U.R.S.S., 1936, 2, 215—[illegible]).—In the Raman spectra of $AsCl_3$ in EtOH and MeOH, respectively, the frequencies of the alcohols are unchanged; those of $AsCl_3$ at 372 and 410 cm.$^{-1}$ are lowered. Denoting the four mol. frequencies of $AsCl_3$ (which is a regular pyramid) by $\omega_1$, $\omega_2$, $\omega_3$, and $\omega_4$, the ratio $\omega_1\omega_2/\omega_3\omega_4$ remains almost const. The $AsCl_3$ mol. is thus only slightly deformed by the alcohol dipoles, but the elastic binding force between $As^{\cdot\cdot\cdot}$ and $Cl^{\cdot}$ changes by about 10% in alcoholic solutions. A. J. M.

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BC

a-1

**Influence of electrolyte on the concentration of heavy water.** A. E. Brodski and N. P. Skrinnikova (Acta Physicochim. U.R.S.S., 1935, 2, 800—810; cf. this vol., 160).—The separation factors, determined by electrolysing 100 c.c. of 0·2N-salt solutions in 0·1% $D_2O$ between Pt electrodes and measuring the concn. of $D_2O$ in the residual liquid (12·5 c.c.), increase from 5·6 for KOH through $H_2SO_4$, KCl, NaCl, and $K_2CO_3$ to 10·6 for $Li_2SO_4$.

T. G. P.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

BC

a-1

Refraction in solutions of strong electrolytes. A. E. Brodski, J. M. Schreschevski, and N. E. Filippova (Acta Physicochim. U.R.S.S., 1935, 3, 685—692).—The n of conc. solutions of strong electrolytes is directly ∝ the concn., c. In dil. solutions n falls below that extrapolated from the data in conc. solutions, and for KCl n ∝ $\sqrt{c}$. The data are considered to agree with Debye and Hückel's theory. In dil. solutions n was measured with an interferometer and good agreement with refractometer measurements was obtained. C. R. H.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

BC

A-3

**Light absorption of copper sulphate in heavy water.** A. E. Brodski and A. A. Zanko (Acta Physicochim. U.R.S.S., 1936, 5, 919—920).—The extinction coeffs. of 0·437 mol. $CuSO_4$ in $H_2O$ and in 43·6 and 92·7% $D_2O$ have been measured between 540 and 660 mμ. The coeff. is reduced by $D_2O$, the reduction being approx. ∝ $[D_2O]$. C. R. H.

COMMON ELEMENTS

MATERIALS INDEX

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Bl

a-1

Fractionation of oxygen isotopes by distillation of water. A. R. [illegible], O. K. [illegible], and V. A. [illegible] (Acta Physicochim. U.R.S.S., 1937, 7, [illegible]).—The constructional details and performance of a distilling apparatus for the simultaneous enrichment of D and $^{18}O$ are given.

W. R. A.

COMMON ELEMENTS

OPEN

MATERIALS INDEX

COMMON VARIABLES INDEX

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MATERIALS INDEX

AUTHOR INDEX

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PROCESSES AND PROPERTIES INDEX

395. **Isotopic Constitution of Snow and Mountain River Water.** A. E. Bredsky, O. C. Scarro, E. I. Donsowa and M. M. Slucknia. *Acta Physicochimica*, 7. 4. pp. 611–620, 1937.—A method is described by which the density of water can be determined with an error of 0·3 to 0·4 γ. The contents of D and $O^{18}$ in three samples of snow and eight samples of water from Caucasian mountain rivers are determined by measurements of density and refractive index. The snow is found to contain about 0·2 to 0·3% less D and 1 to 2% more $O^{18}$ than normal river water. In winter the isotopic constitution of the mountain river water is normal, but later in the year is influenced by the melting of the snows. An exchange experiment between ordinary water and atmospheric oxygen is carried out and a density increase amounting to 10·7 γ, due to enrichment of $O^{18}$, is observed. This result is in agreement with theoretical considerations.

L. A. W.

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1ST AND 2ND ORDERS

3RD AND 4TH ORDERS

PROCESSES AND PROPERTIES INDEX

B C

A-1

Raman spectra in solution. III. Phosphorus and bismuth trichlorides in different solvents. A. E. [illegible] and L. V. [illegible] (Acta Physico-chim. U.R.S.S., 1937, 7, 791—796).—Raman displacements for $PCl_3$ in $Et_2O$, $CS_2$, and $CHCl_3$, and of $BiCl_3$ in HCl, are recorded and compared with existing data. The variation of the intensity of $PCl_3$ lines in $CHCl_3$ with $[PCl_3]$ is discussed.

W. R. A.

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1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

BC

a-1

Absorption spectra of copper, cobalt, and nickel sulphates in heavy water. A. A. Zanko and A. E. [illegible] (Acta Physicochim. U.R.S.S., 1938, 8, 209—214).—Measurement of the absorption curves of $CuSO_4$, $CoSO_4$, and $NiSO_4$ in $H_2O$ and $D_2O$ confirms preliminary observations (A., 1937, I, 131) that replacement of $H_2O$ by $D_2O$ does not cause a shift in the absorption max., but produces a symmetrical compression of the absorption curves.

W. R. A.

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PROCESSES AND PROPERTIES INDEX

**Concentration of the heavy isotope of oxygen and isotopic analysis of water.** O. K. Skarre and A. E. Brodski (Compt. rend. Acad. Sci. U.R.S.S., 1938, 20, 305—308).—80% $H_2{}^{18}O$ has been obtained by distillation. Data are recorded for ρ and n of conc. samples. L. J. J.

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PROCESSES AND PROPERTIES INDEX

BC

A1

O. D. S.

**Isotopic composition of the Arctic seas and ice.** A. E. Ravskii and N. P. Radtschenko (*Acta Physicochim. U. R.S.S.*, 1950, 22, 145—156).—Data on the isotopic compositions of a no. of samples of $H_2O$ of varying arctic origin are given. They fall into three groups, having respectively low D content and high $^{18}O$ content; high D content and normal $^{18}O$ content; and normal D and high $^{18}O$ content. F. J. G.

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PROCESSES AND PROPERTIES INDEX

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a-3

[redacted]

A. T. P.

A59-51A METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

**Study of mechanism of chemical reactions with oxygen isotopes. II. Mechanism of the Beckmann rearrangement.** G. Mikhailin and A. Brodski (*Acta Physicochim. U.R.S.S.*, 1942, **16**, 63–70).—Experiments with $H_2O$ enriched in $^{18}O$ show that no exchange occurs between $H_2O$ and NHPhBz in an acid or neutral medium; no exchange occurs between $H_2O$ and NHPhAc in a neutral medium, but in acid slow exchange is detected. Reaction of $CPh_2{:}N{\cdot}OH$ with $H_2O$ and $PCl_5$ in the cold is accompanied by O exchange, showing that the Beckmann rearrangement occurs by an intermediate elimination of O as $H_2O$, and not by direct intramol. rearrangement

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By iho

**Partial separation of uranium light isotope by thermodiffusion.** A. E. Brodski. (*Acta Physicochim. U.R.S.S.*, 1942, 17, 224—227).—Calculations are made of the necessary equipment and efficiency for the separation of $^{235}U$ by thermal diffusion using $UF_6$. The energy expended in separation is 40—80% of that yielded by fission of the $^{235}U$ nuclei. J. F. H.

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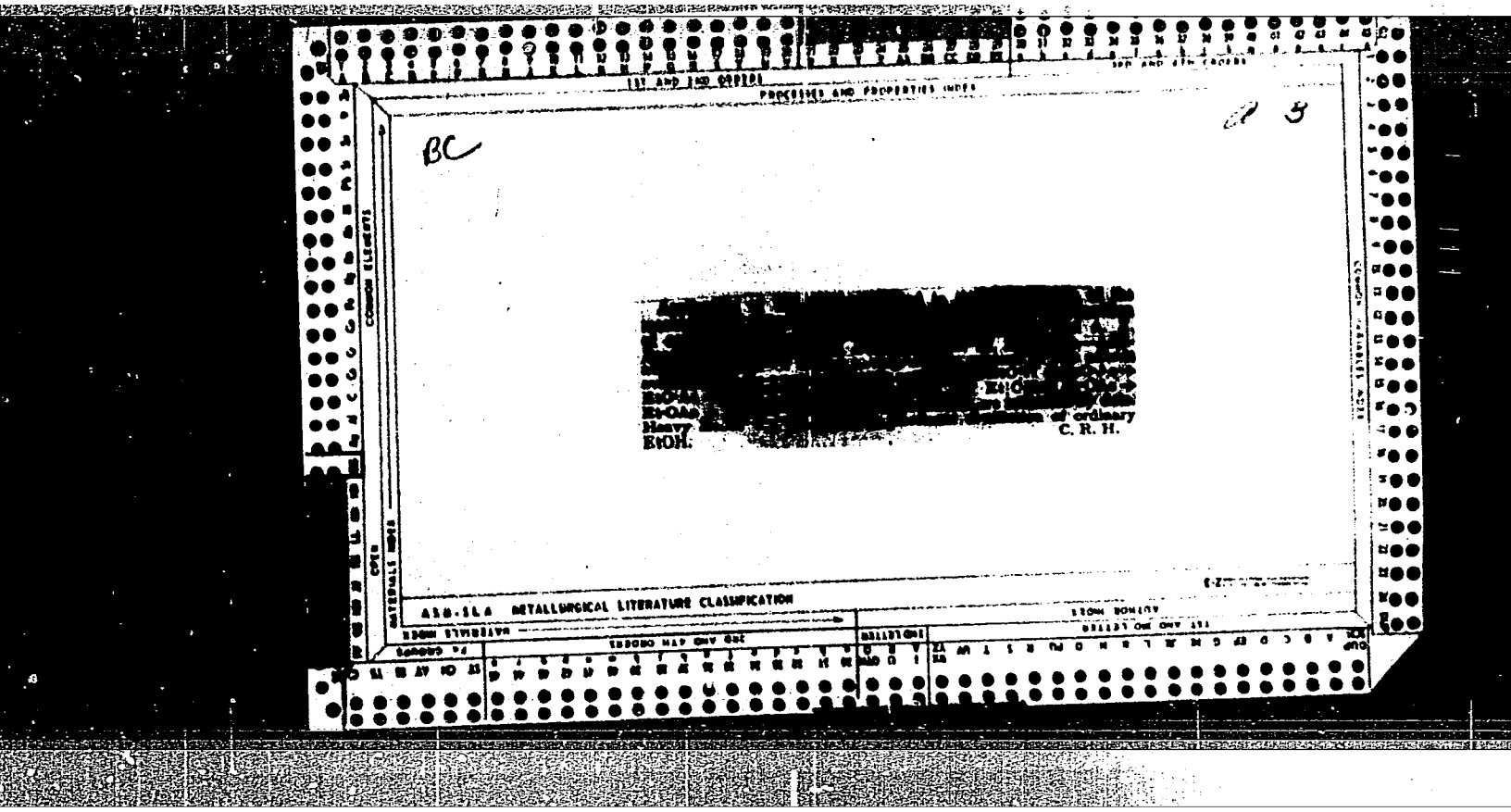


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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, A. E. and MIKLUKHIN, G. P. (Kiev)

"Untersuchung uber den Austausch von Schwefel-Isotopen in Schwefel-Verbindungen."

paper presented at the Intl Conference on Radioisotopes in Scientific Research in Paris, 19-20 Sept. 1957.

Angewandte Chemie, No. 3, 1958.

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ISOTOPIC EXCHANGE OF OXYGEN IN ACID AND SALT

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BRODSKIY, A. YE.

"Utersuchengen uber den Mechanisms einger Reaktionem der Peroxydverbindunges mit Hilfe des Isotops $^{18}O$."

Report presented at the 2nd Conf. on Stable Isotopes
East German Academy of Sciences, Inst. of Applied Physical Material
Leipzig, GDR 30 Oct-4 Nov 1961.

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BRODSKIY, A.Ye.; TOLMACHEVA, N.V.; ROMVARI, P.

Softening of heat-treated structural steel. Metalloved. i term. obr. met. no.8:47-49 Ag '64. (MIRA 17:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy i Budapeshtskiy politekhnicheskiy institut.

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BRODSKIY, B.; VARSHAVSKIY, A.

Giant. Znan. sila 36 no.10:34-35 O '61. (MIRA 16:12)

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BRODSKIY, Boris

[The entire world is in the southwest] Vés' mir na IUgo-Zapade. Moskva, Izd-vo "Znanie" [1961] 66 p.
(MIRA 15:7)

(Exhibitions)

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BRODSKIY, B., kand.iskusstvovedeniya; VARSHAVSKIY, A., kand.istoricheskikh nauk

Bronze horseman. Znan.sila 36 no.1:14-17 Ja '61. (MIRA 14:3)
(Leningrad--Monuments) (Falconet, Etienne Maurice, 1716-1791)

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BRODSKIY, B.; VARSHAVSKIY, A.

Marseillaise. Znan. sila 36 no.12:35-36 D '61. (MIRA 15:1)
(Paris--Arches, Triumphal)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY B.A.

"Analiz Gotevih Lekarstvennih Form," Analysis of Prepared Medicinal Forms, Leningrad, 1950.

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, B.S.

25972 Brodskiy, B.S. Znacheniye Namagnichivaniya Vnutriglaznykh Oskolkov Dlya Uspeshnogo Udaleniya Ikh Magnitom. Oftalmol. Zhurnal, 1948, No.2 S. 55-57.

SO: Letopis' Zhurnal Statey, No. 30, Moscow, 1948

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, S. S.

26659 Znachenie postoyannogo magnita brodskogo--kal'fa v usloviyakh voyennogo vremeni. oftalmol furnal, 1949, No. 3, s. 123-25

SO: LETOPIS' NO. 35, 1949

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, B. S.

Brodskiy, B. S. - "Magnetic Operations in Ocular Practice." Odessa State Medical Inst imeni N. I. Pirogov. Odessa, 1956 (Dissertation for the Degree of Doctor in Medical Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

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| | |
|---|---|
| Name | BRODSKIY, Bentsion Samoylovich |
| Dissertation | Magnetic Operations in the practice of Ophthalmology |
| Degree | Doc Med Sci |
| Affiliation | /not indicated/ |
| Defense Date, Place | 19 Apr 56, Council of Odessa State Med Inst imeni Pirogov |
| Certification Date | 15 Dec 56 |
| Source | BMVO 7/57 |

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BRODSKIY, B.S., dotsent

"Problems in injuries of the eye; collected papers from the Department of Ophthalmological Pathology at the Gor'kii Medical Institute in Stalino." Reviewed by B.S.Brodskii. Oft.zhur. 12 no.2:125-126 '57. (MIRA 10:11)

(EYE--WOUNDS AND INJURIES)

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BRODSKIY, B.S., dots.

Organization of first aid for the eyes. Uch. zap. UEIGB 4:344-346 '58. (MIRA 12:6)

1. Ukrainskiy eksperimental'nyy institut glaznykh bolezney i tkanevoy terapii imeni akademika V.P. Filatova.
(EYE--WOUNDS AND INJURIES)

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BRODSKIY, B.S., doktor med. nauk

Experimental data on the condition of the scleral incision following trepanation for removal of a splinter from inside the eye. Oft. zhur. 13 no.1:26-29 '58. (MIRA 11:4)

1. Iz kliniki glaznykh bolezney (zav.-prof. S.F.Kal'fa) Odesskogo meditsinskogo instituta im. N.I.Pirogova.
(EYE--SURGERY)

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BRODSKIY, B.S., dots. doktor med. nauk.

Comparative estimation of results obtained from X-ray localization of intraocular splinters according to the methods of Komberg-Baltin and Abalikhin-Pivovarov. Oft. zhur. 13 no.6:337-342 '58. (MIRA 12:1)

1. Iz kliniki glaznykh bolezney imeni akademika V.P. Filatova (zav. -prof. S.F. Kal'fa) Odesskogo meditsinskogo instituta imeni N.I. Pirogova.
(EYE--FOREIGN BODIES)

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BRODSKIY, B.S., doktor med.nauk

Choice of a place for opening the sclera for effective removal of splinters from the eye. Oft.zhur. 13 no.7:439 '58. (MIRA 12:1)

1. Iz kafedry glaznykh bolezney imeni akademika V.P. Filatova (zav. - prof. S.F. Kal'fa) Odesskogo meditsinskogo instituta.
(EYE--FOREIGN BODIES)
(SCLERA--SURGERY)

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BRODSKIY, B.S., doktor med. nauk

"Battlefield ophthalmology" by B.L. Poliak. Reviewed by B.S. Brodskii. Oft.zhur. 13 no.8:496-497 '58. (MIRA 12:2)
(OPHTHALMOLOGY) (MEDICINE, MILITARY)
(POLIAK, B.L.)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, B.S., doktor med.nauk, dots.

Prevention of adhesions in eye burns. Oft.zhur. 14 no.6:337-343, 1959 (MIRA 13:4)

1. Iz kafedry glaznykh bolezney (zav. - prof. S.F. Kal'fa) Odesskogo meditsinskogo instituta im. N.I. Pirogova.
(EYE--WOUNDS AND INJURIES) (BURNS AND SCALDS)
(EYE, INSTRUMENTS AND APPARATUS FOR)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, B.S., doktor med.nauk

"Eye injuries in industry and their prevention" by O.I. Shereshevskaia. Reviewed by B.S. Brodskii. Oft.zhur. 15 no.2:124-125 '60.
(MIRA 13:5)

(EYE--WOUNDS AND INJURIES) (SHERESHEVSKAIA, O.I.)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, B.S., doktor meditsinskikh nauk

"Eye injuries in agriculture; a manual for the practicing physician" by A.G.Krol'. Reviewed by B.S.Brodskii. Oft. zhur. 15 no.5:314-315 '60. (MIRA 13:9)

(EYE—WOUNDS AND INJURIES) (KROL', A.G.)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, B.S., doktor med.nauk (Odessa)

Does television harm vision? Zdorov'e 6 no. 11:31 N '60. (MIRA 13:10)

(TELEVISION—PHYSIOLOGICAL EFFECT) (VISION)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, B.S.; RABINOVICH, M.G., red.; MATVEYEVA, M.M., tekhn. red.

[Magnetic surgery for the extraction of metal fragments from the eye] Magnitnye operatsii dlia izvlecheniia metallicheskikh oskolkov iz glaza. Moskva, Medgiz, 1963. 142 p. (MIRA 16:7)

(EYE--SURGERY) (MAGNETISM--THERAPEUTIC USE)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, B. YA.

Brodskiy, B. Ya. - "Moscow University honors a leading Soviet scientist. On the occasion of the 50th anniversary of the birth of Academician T. D. Lysenko", (Summary of the speeches given at the anniversay dinner), Vestnik Mosk. un-ta 1948, No. 10, p. 13-19.

SO: U-3042, 11 March 1953, (letopis 'nykh Statey, No. 10, 1949).

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, B.Yu., kapitan med. sluzhby

Organization and execution of prophylactic disinfection measures in a garrison. Voen.-med. zhur. no.8:71-72 Ag '60. (MIRA 14:7)
(MILITARY HYGIENE) (DISINFECTION AND DISINFECTANTS)

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BRODSKIY, D.

Innovators should join the society. NTO 3 no.6:29 Je '61. (MIRA 14:6)

1. Predsedatel' Volynskogo oblastnogo pravleniya Vesesoyuznogo khimicheskogo obshchestva imeni D.I.Mendeleyeva, g. Lutsk.
(Volynsk Province--Chemical industries)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

L 08576-67 EWT(m) DS/FDN/WW

ACC NR: AP6033481 SOURCE CODE: UR/0413/66/000/018/0083/0084

INVENTOR: Khanin, I. M.; Smul'sov, A. S.; Brodskiy, E. V.; Mizin, V. A.

ORG: none

41
B

TITLE: Liquid atomizer. Class 24, No. 186066

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 83-84

TOPIC TAGS: fuel atomizer, fuel atomization, fuel injector

ABSTRACT: The proposed liquid atomizer consists of a housing containing a guide assembly inside it. In order to obtain uniform atomization of large volumes of liquids at low pressures, the nozzle guide assembly is provided with disks, placed one above another, and having offcenter openings with different diameters. A cylindrical partition is mounted under the upper disk (see Fig. 1). Orig. art. has: 1 figure.

[WA No. 88]

Card 1/2 UDC: 697.932.6

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

ACC NR: AP6033481

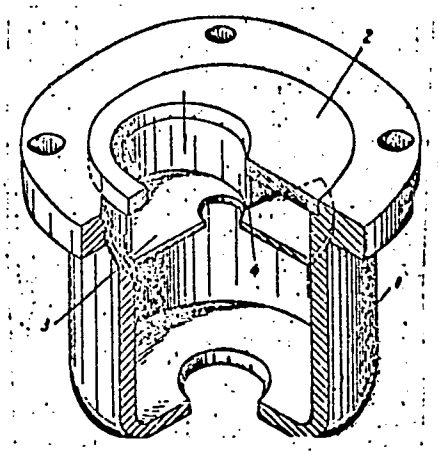

Fig. 1. Liquid atomizer

1 - Housing; 2 - upper disk; 3 - lower disk; 4 - partition.

SUB CODE: 21/ SUBM DATE: 15Apr65

Card 2/2

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, E.Ya., inzh.

Reducing the volume and improving the quality of technological documentation. Sudostroenie 24 no.2:54-56 F '58. (MIRA 11:3)
(Shipbuilding-- Contracts and specifications)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

TOPIC TAGS: nitrogen, oxygen, chlorine, [illegible]
flux refinement, recovery, transport

ABSTRACT: The method of oxygen and nitrogen control in magnesium was used to assess the effectivity of removing admixtures. Flux refining was employed and specimens taken from two [illegible] electrolyzer as well as before and after [illegible]

Card [illegible]

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L 39755-65

ACCESSION NR: AP4047473

of the metal with respect to chlorine. Thus, the authors were able to retain the original level of oxygen and nitrogen [illegible] temperature conditions [illegible]

ASSOCIATION: None

SUBMITTED: [illegible] ENCL: 00

NR REF SOV: 006 OTHER: 002

Card 2/2

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3c

L 21201-65 EPA(s)-2/EWT(m)/EPF(n)-2/EPR/EWP(t)/EPA(bb)-2/EWP(b) Ps-4/
Pad/Pt-10/Pu-4 IJP(c) JD/WW/HW/JG
ACCESSION NR: AP5000940 S/0136/64/000/012/0053/0056

AUTHOR: Rodyakin, V.V., Andreyev, A. Ye., Boyko, Yu.N., Vaynshteyn, G.M., Kargin, V.M., Brodskiy, E.Ye., Khabarova, N.P., Tkalich, V.S.

TITLE: Transportation of liquid metallic magnesium

SOURCE: Tsvetnyye metally, no. 12, 1964, 53-56

TOPIC TAGS: liquid magnesium, liquid magnesium transport, titanium production, magnesium contamination, vacuum ladle, nickel impurity

ABSTRACT: A special vacuum ladle was designed for the transportation of liquid magnesium which protects against reaction with nitrogen and oxygen and contamination by inclusions. The metal was sampled from the electrolytic cells, from the vacuum ladle and from the reactor, which is the route the magnesium followed, and the content of O, N, Cl, Fe, Si and Ni was determined in these samples. The content of all impurities except nickel dropped during the intake and transportation of the magnesium. The quality of the magnesium deteriorated when charged into the reactor, the nitrogen and oxygen contents in the samples having increased owing to poor air-tightness of the charging unit. The content of chlorine also increased. The magnesium was contaminated with nonmetallic

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L 21201-65
ACCESSION NR: AP5000940

inclusions mainly during the operations of sampling from the electrolytic cells and when pouring into the reducing reactors; the content of metallic impurities remained unchanged. To improve the sampling methods, and thus avoid contamination, further studies are to be directed toward excluding contact of the magnesium with the air, creation of a shielding atmosphere, and reduction of the number of operations associated with pouring the liquid magnesium from vessel to vessel. "Ye. V. Pirozhok, S.V. Yurchenko (deceased), I.P. Muntyanov, N. Yu. Sukhorukova, N.K. Bulanaya, N. Ya. Akhtemenko and A.M. Bragin also took part in the work." Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 01 SUB CODE: MM, IE

NO REF SOV: 001 OTHER: 000

Card 2/3

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, F. I.

BRODSKIY, F. I.: "The role of the water factor in the pathogenesis of convulsive attacks in epilepsy." Kuybyshev State Medical Inst. Kuybyshev, 1956. (Dissertion For the Degree of Candidate in Medical Sciences.)

Knizhnaya letopis', No. 39, 1956. Moscow.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, F.I.

New preparation used in the treatment of epilepsy and its therapeutic effectiveness. Zhur.nevr. i psikh. 55 no.9:682-689 '55. (MLRA 8:11)

1. 3-ya psikhiatricheskaya klinika (zav. F.I.Brodskiy) Ukrainskogo nauchno-issledovatel'skogo psikhonevrologicheskogo instituta.
(EPILEPSY, therapy,
mixture containing various drugs.

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

1. BRODSKIY, F. I.

2. USSR (600)

4. Stock and Stockbreeding

7. Initiators of socialist competition for high quality in stockbreeding, Sots. zhiv., 15, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

FEDYK, P.K.; BRODSKIY, F.I.; ROMANOVICH, Ye.F, redaktor; VESKOVA, Ye.I., tekhnicheskiy redaktor

[Vinnitsa stockbreeders] Vinnitskie zhivotnovody. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 221 p. (MIRA 9:8)
(Vinnitsa Province--Stock and stockbreeding)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, G.

Loss reduction in metallurgy. Metallurg 7 no.11:33 N '62. (MIRA 15:10)

1. Predstavitel' Dnepropetrovskogo soveta narodnogo khozyaystva i Oblastnogo soveta professional'nykh soyuzov po obsledovaniyu zavoda im. Dzerzhinskogo.

(Iron and steel plants)

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L 2922-66 EWT(d)/EWP(c)/EWP(v)/T/EWP(k)/EWP(h)/EWP(1) IJP(c) BB/GG/JXT(CZ) 53

AM4048670 BOOK EXPLOITATION UR/ 6P2,15 P75 B+1

Kozlova, O.; Brodskiy G.; Dudorin, V.; Mitin, S.; Nikonova, L.; Salomatin, N.

Application of electronic computers to production control (Primeneniye elektronno-vychislitel'nykh mashin v upravlenii proizvodstvom) Moscow, Izd-vo "Mysl", 1964. 508 p. illus., fold-in diagrs. 7000 copies printed. Under the editorship of: Professor O. V. Kozlova, Doctor of Economic Sciences; Editor: V. Budarina; Junior editor: L. Ulanova; Proofreaders: L. Chigina, Yu. Starikova, O. Mel'nikova, S. Novitskaya

TOPIC TAGS: automation, electronic computer, production control

PURPOSE AND COVERAGE: This book is expected to be of definitive assistance to industrial personnel. The book was based on research performed in the Nauchno-issledovatel'skaya laboratoriya ekonomiki i organizatsii proizvodstva Mosgorsovnarkhoza at the Moskovskiy inzhenerno-ekonomicheskiy institut imeni Sergo Ordzhonikidze. All the work has been subjected to experimental introduction into practice at several Moscow enterprises.

Card 1/2

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L 2922-66
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Ch. I. Principles of production control with the aid of electronic computers - 3
Ch. II. Technical-economic planning with the application of electronic computers - - 56
Ch. III. Application of electronic computers in operational production planning of series production - - 109
Ch. IV. Operational production planning with the application of electronic computers in unit and in small-series production - - 194
Ch. V. Application of electronic computers in intraplant accounting - - 278
Ch. VI. Information concerning the operation of enterprises with the aid of electronic computers - - 419
Ch. VII. Questions of the economic feasibility of applying electronic computers in production control - - 493

SUB CODE: IE SUBMITTED: 3Jan64 NR REF SOV: 007

OTHER: 000

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, G.

Quality and reliability first. Metallurg 10 no.7:44 Jl '65. (MIRA 18:7)

1. Zavod im. Petrovskogo.

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, G.

New achievements in the current seven year plan. Metallurg 10 no.8:34 Ag '64. (MIRA 17:11)

1. Metallurgicheskiy zavod im. Petrovskogo Pridneprovskogo soveta narodnogo khozyaystva.

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, G.

Improve work of wage boards. Sov.profsoiuzy 4 no.6:50-52 Je '56. (MLRA 9:8)

1. Starshiy inzhener otdela organizatsii truda zavoda imeni Petrovskogo.

(Wages)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, G.A.

Experience in using the AKKh filter in removing iron from water. Vod.i san.tekh. no.8:31-32 N '55. (MLRA 9:3)
(Filters and filtration) (Water--Purification)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, G.A.

BRODSKIY, G.A. (Kiyev)

A well-less water post. Vod.i san.tekhn. no.9:29-30 S '57. (MIRA 10:11)

(Water-supply engineering--Apparatus and supplies)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, G.I.; MEREZHANNYY, S.B.; REZNIKOVSKIY, M.M.; SAKHNOVSKIY, N.L.

Evaluation of service life of protective rubbers. Trudy Nauch.-issl. inst. shin. prom. no.7:78-90 '60. (MIRA 14:8)
(Rubber--Testing)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"

"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

S/138/60/000/008/[illegible]
A051/A029

AUTHORS: Brodskiy, G.I.; Sakhnovskiy, N.L.; Reznikovskiy, M.M.; Yevstratov, V.F.

TITLE: Mechanical and Thermochemical Destruction in the Wear of Rubber Under Various Conditions

PERIODICAL: Kauchuk i Rezina, 1960, No. 8, pp. 22 - 29

TEXT: Brief reference is made to the previous theories on the wear mechanism of rubber described in Refs, 1 - 10. It was found that the relative role of the mechanical and chemical factors in the wear mechanism of rubber depends on the testing conditions. On smooth surfaces with a low thermal conductivity the wear-out in rubber takes place primarily according to the mechanism of thermooxidizing destruction. On rough surfaces it takes place mainly according to the mechanism of mechanical wear-out. The experiments were conducted on a НИИШП ИМИ1 (NIIShP IMI-1) Dunlop-Lamburne- type machine. The various types of abrasive surfaces selected for the study were: a smooth tin plate, smooth plexiglas, a steel plate with specially cut-out grooves on its surface, (the carbon black dosage was 50 weight parts to 100 weight parts of rubber), a plastic (vinyplast) plate, also with grooves, a Monocorund 150 polishing skin and a 4-mm plate of hard rubber (hardness = 84, ac-

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S/138/60/000/008/006/015
A051/A029

Mechanical and Thermochemical Destruction in the Wear of Rubber Under Various Conditions

cording to shore). It was shown that the braking force F depends comparatively little on the nature of the wearing-out surface and the composition of the rubber. The wear intensity evaluated from the volume loss per min. changes more significantly. It is deducted the wear index v, depends on the nature of the surface and the nature of the surface material just as much as the wear intensity, and is characteristic only for a given friction couple. The investigated materials of the abrasive surfaces fell in the following sequence according to increase in wear intensity: tin < plexiglas < rubber < grooved plastic < grooved steel < Monocorund 150. The wear from a metal surface takes place at considerably lower temperatures than from materials with less thermal conductivity. It is also noted that the wear on rough uneven surfaces is primarily mechanical. It is further shown that the air oxygen has a substantial effect on the wear of rubber. The effect of the medium on the abrasion increases with a decrease of the abrasiveness of the abrasive coating and with an increase in testing temperature. Tread rubbers based on various raw materials: natural rubber, sodium-butadiene СКБ-50 (SKB-50), butadiene-styrene СКС-30АРКМ (SKS-30ARKM), carboxylic СКС-30-1 (SKS-30-1) chloroprene, nitrile СКН-26 (SKN-26), etc., were selected for the study of the effect of oxygen and

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S/138/60/000/008/006/015
A051/A029

Mechanical and Thermochemical Destruction in the Wear of Rubber Under Various Conditions

nitrogen on wear. It is shown that the degree of change of wear in rubber, when switching over from tests in air to tests in nitrogen, basically depends on the nature of the polymer and the type of carbon black. A study was also conducted of the abrasion of tread rubber based on natural rubber having different anti-aging and anti-fatigue substances in its composition both in an air and nitrogen medium. It is shown that a number of anti-aging and anti-fatigue agents increase the wear-resistance of natural rubber when tested both in air and in nitrogen. Laboratory tests on abrasive skins revealed a predominance of mechanical wear. The authors point out that it is necessary to continue the study for selecting standard abrasive materials in order to attain a maximum similarity between laboratory testing conditions and those of the road. There are 6 tables, 3 figures, 1 diagram, 2 photographs and 15 references: 8 Soviet, 6 English, 1 German.

ASSOCIATION: Nauchno-issledovatel-skiy institut shinnoy promyshlennosti (Scientific Research Institute of the Tire Industry).

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

BRODSKIY, G.I.

Toward increased productivity. Metallurg 6 no.11:33-34 N '61.
(MIRA 14:11)
(Dnepropetrovsk--Metallurgical plants)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

REZNIKOVSKIY, M.M.; BRODSKIY, G.I.

Frictional wear of rubber on relatively smooth surfaces. Kauch.i rez. 20 no.7:18-23 Jl '61. (MIRA 14:6)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.
(Rubber—Testing) (Friction)

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"APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8

USSR

13

DOGADKIN, B. A., and TARASOVA, Z. N., Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov [1961 position] - "Influence of vulcanisation structures on physical and mechanical properties of vulcanisates" (Session II)

KUZ'MINSKIY, A. S., LYUBCHANSKAYA, L. I., FEL'DSHTEYN, L. S., Scientific Research Institute of Rubber Industry, Moscow [1960 locations] - "Influence of mechanical stresses on the ageing of vulcanised rubbers" (Session VIII)

NOVIKOV, A. S., GILINSKAYA, N. S., DYUMAYEVA, T. N., GRIBACHEVA, A. V., NUDEL'MAN, Z. N., and GALIL-OGLY, F. A., Scientific Research Institute of Rubber Industry, Moscow [1961 locations] - "Investigation of amine vulcanisation of SKF-26 fluoroco-polymer" (Session II)

REZNIKOVSKIY, M. M., and BRODSKIY, G. I., Scientific Research Institute of Tire Industry, Moscow - "Special features of the mechanism of abrasion of high-elastic materials" (Session V)

Report to be submitted for the 4th Rubber Technology Conference, London, England, 22-25 May 1962.

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000307010002-8"