"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASHOV, G.V.;STROYEVA, O.G.

Regeneration following excision of the retina in rats. Doklady Akad. nauk SSSR 85 no. 2: 449-452 11 July 1952. (CLML 23:3)

1. Presented by Academician A. I. Abrikosov 28 1952. 2. Institute of Animal Morphology imeni A. N. Severtsov, Academy of Sciences USSR.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASHOV, G.V.; DYKMAN, L.M.

Transplantation of organs and the problem of tissue compatibility. Priroda 41 no.7:33-39 Jl '53. (MLRA 6:6)

(Transplantation (Physiology))

Homotransplantations can be readily accomplished in tailed amphibia, but not adult tailless amphibia. However, the heart of an adult frog can be grafted onto another frog. In the case of mammals, only tissues which have a low metabolism (cornea, cartilage, teeth) or organs which carry heavy functional load (kidneys) can be successfully homotransplanted. The immunological reactions to tissues from another individual can be lowered by selecting a younger donor and host, by acting on the nervous system through the medium of artificially induced sleep, or by affecting the immunogenic system with the aid of acetylcholine and cortisone. Expts show that immunological reactions to foreign tissue are not local, but general, i.e., involve participation of thr whole organism contg an intact hemopoietic system (spinal cord, spleen, liver).

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASHOV, G.V.

Quantitative rules in the regeneration of the retina. Dokl.AN SSSR 105 no.3:599-602 N '55. (MLRA 9:3)

1. Institut morfologii zhivotnykh Akademii nuak SSSR. Predstavleno akademikom A.D. Speranskim.
(Retina) (Regeneration (Biology))

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASHOV, G. V.

LOPASHOV, G. V.: "The mechanism of formation of the neutral portion of the eye during embryonic development." Acad Sci USSR. Inst of Animal Morphology imeni A. N. Severtsov. Moscow 1956 (DISSERTATION FOR THE DEGREE OF DOCTOR IN BIOLOGICAL SCIENCE)

So.: Knizhnaya letopis' No 15, 1956, Moscow

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASHOV, G.V.

Mechanism of formation and origin of the choroid in the amphibian eye. Dokl. AN SSSR 109 no.3:653-656 Jl '56. (MLRA 9:10)

1. Insitut morfologii zhivotnykh imeni A.N. Severtsova Akademii nauk SSS . Predstavleno akademikom I.I. Shmal'gausenom.
(CHOROID) (AMPHIBIA)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASHOV, G. V. (Moscow) Institute of Animal Morphology, USSR Academy of Sciences

"Comparative Studies of the Transformation Capacity of the Eye Layers at Various Stages of Development in Vertebrates"

Soviet paper presented at the 15th Intl. Congress of Zoology, London, 16-23 Jul 58

Abst. available

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASHOV, Georgiy Viktorovich; DETLAF, T.A., otv.red.; IGNAT'YEVA, G.M., red.izd-va; KOVAL'SKAYA, I.F., tekhn.red.

[Mechanisms of development of the embryonic eye in vertebrates] Mekhanizmy razvitiia zachatkov glaz v embriogeneze pozvonochnykh. Moskva, Izd-vo Akad.nauk SSSR, 1960. 223 p. (MIRA 13:5)
(EMBRYOLOGY--AMPHIBIA) (EYE)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASHOV, G.V.

Embryonal induction and regularities of casual relations in developing embryos. Zhur. ob. biol. 22 no.4:241-254 Jl-Ag '61. (MIRA 15:6)

1. Institute of Animal Morphology U.S.S.R. Academy of Sciences, Moscow.

(EMBRYOLOGY)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

ASTAUROV, B.L.; BEDNYAKOVA, T.A.; VEREYSKAYA, V.N.; OSTRYAKOVA-VARSHAVER, V.P.; LOPASHOV, G.V., otv. red.; IGNAT'YEVA, G.M., red. izd-va; KASHINA, P.S., tekhn. red.

[Effect of high temperatures on silkworm eggs]Deistvie vysokikh temperatur na grenu shelkovichnogo chervia. Moskva, Izd-vo Akad. nauk SSSR, 1962. 124 p. (MIRA 15:10)
(Silkworms) (Temperature—Physiological effect)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASHOV, Georgiy Viktorovich; STROYEVA, Ol'ga Georgiyevna; KHRUSHCHOV, G.K., otv. red.[deceased]; ASPIZ, M.Ye., red. izd-va; POLENOVA, T.P., tekhn. red.

[Development of the eye in the light of experimental studies] Razvitie glaza v svete eksperimental'nykh issledovanii. Moskva, Izd-vo Akad. nauk SSSR, 1963. 204 p. (MIRA 16:7)

1. Chlen-korrespondent AN SSSR (for Khrushchov)
(EYE)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASHOV, G.V., doktor biolog. nauk

International Embryological Conference in Helsinki. Vest. AN SSSR 33 no.12:62-65 D '63. (MIRA 17:1)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASHOV, G.V., red.; NEYFAKH, A.A., red.; STROYEVAYA, O.G., red.; IGNAT'YEVA, G.M., red.

[Cell differentiation and induction mechanisms; reports] Kletochnaia differentsirovka i induktsionnye mekhanizmy; sbornik dokladov. Moskva, Nauka, 1965. 269 p. (MIRA 18:7)

1. Simpozium po kletochnoy differentsirovke i induktsionnym mekhanizmam. Moscow, 1963. 2. Institut morfologii zhivotnykh im. A.N.Severtsova AN SSSR, Moskva (for Lopashov).

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

SULIDI-KONDRAT'YEV, Ye.D. (Moskva); KOZLOV, V.V. (Moskva); BANNIKOV, A.G., prof. (Moskva); MENYAYLOV, A.A., doktor geol.-mineral.nauk; KUROCHKIN, G.D., kand.geol.-mineral.nauk (Moskva); SLUTSKIY, M.S. (Moskva); YAKOVLEV, Yu.Ya. (Moskva); LOPASHOV, G.V., doktor biolog.nauk (Moskva)

Books. Priroda 54 no.2:58,71,103,108,123-124 F '65. (MIRA 18:10)

1. Institut morfologii zhivotnykh AN SSSR (for Lopashov).

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

YEGOROVA, A.G.; GIMMERVERT, R.V.; LOPASHOVA, Ye.V.; YELENSKAYA, A.N.; LOBANOVA, A.Ya.; KHANZHINA, Ye.B., red.; SHILLING, V.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[System of preparing the rye-bread dough in an N.F.Gatilin outfit] Reshim prigotovleniia testa dlia rzhanogo khleba v agregate N.F.Gatilina. By A.G.Egorova i dr. Leningrad, 1961. 16 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Khlebopekarnaia promyshlennost', no.1) (MIRA 14:10)
(Dough) (Baking--Equipment and supplies)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

YEGOROVA, A.G.; KAZANSKAYA, L.L.; [illegible], Z.I.; [illegible], Ye.V.; BEZRUCHENKO, L.P.

[New strains of lacti[illegible] acti[illegible] bacteria for rye leaven preparation] Novye shtammy molochnokislykh bakterii rzhanykh zakvasok. Moskva, TSentr. in-t nauchno-tekhn. informatsii pishchevoi promyshl., 1963. 34 p. (MIRA 17:8)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASIC, R.

Subarochhoid hemorrhage. Neuropsihijatrija 2 no.1-2:1-34 1954.

1. Neuropsihijatrijska klinika Medicinskog fakulteta u Zagregu. (Predstojnik: prof. Dr. R. Lopasic)
(CEREBRAL HEMORRHAGE, subarachnoid)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASIC, Radoslav, dr.

Allergy in neurology. Lijec. vjes. 81 no.9-10:613-624 '59.

1. Iz Klinike za zivcane i dusevne bolesti Medicinskog fakulteta u Zagrebu.
(ALLERGY)
(NERVOUS SYSTEM dis.)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASIC, R.

Prof. Dr. Dimitrije Dimitrijevic. 10/19/1891-2/14/1961.
Neuropsihijatrija 9 no.2/3:236-239 '61.
(OBITUARIES)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPASIC, VATROSLAV

Category : YUGOSLAVIA/Nuclear Physics - Instruments and Installations. Method of Measurement and Investigation C-2

Abs Jour : Ref Zhur - Fizika, No 2, 1957 No 2989

Author : Lopasic, Vatroslav
Inst : Faculty of Technology, Zagreb, Yugoslavia
Title : A Note on the Wire Loop Method for Locating the Median Plane in a Cyclotron Magnet.

Orig Pub : Glasnik mat.-fiz. i astron., 1955, 10, No 5, 195-198

Abstract : Current-carrying wire loops, attached at one point to the float are used extensively to investigate the equilibrium orbits in cyclotrons. The article indicates a method for finding the median plane of a magnet with the aid of such a loop. It is shown that the central point of the circle formed by the loop lies in the median plane, if the position of the float is independent of the current flowing through the loop.

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LOPATA, A. Ya.

PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 748 - I

BOOK Call No.: AF526416

Authors: BONDAR', M. P., Kand. of Tech. Sci., ORLIKOV, M. L., Kand. of Tech. Sci., LOPATA, A. Ya., Eng.

Full Title: ADJUSTMENT OF AUTOMATIC AND SEMI-AUTOMATIC LATHES

Transliterated Title: Naladka tokarnykh avtomatov i poluvtomatov

PUBLISHING DATA

Originating Agency: None

Publishing House: State Scientific and Technical Publishing House of Machine-Building Literature (MASHGIZ), Kiyev

Date: 1950 No. pp.: 275 No. of copies: 7,500

Editorial Staff: Sivay, A. V., Dotsent - Editor
Vasilenko, I. I. Eng. - Appraiser

PURPOSE: This is a hand-book for machinists, foremen and workers who set up and tune automatic and semi-automatic lathes of Russian make, to familiarize them with the construction of these machines and their adjustment.

TEXT DATA

Coverage: Basic types of Russian automatic and semi-automatic machine tools, their characteristics, their schematic layouts, their use, their merits and shortcomings are briefly dealt with. Then this book describes in detail the individual typical Russian automatic and semi-automatic machines and the step-step-------

NOTE: See card for BONDAR', M. P. for pages 2-3 of the report.

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BTR

8488* Cutting Forces During Rapid Cutting by Wide Cutters. (In Russian.) A. Ia. Lopata. Stanki i Instrument, v. 22, Dec. 1951, p. 23-25.

Dependence of cutting forces on cutting rate were determined for two steels (plain carbon and a Cr ball-bearing steel). Data are tabulated and charted.

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

KRZHIVITSKIY, B.N., dotsent, kandidat tekhnicheskikh nauk; BONDAR', M.P., kandidat tekhnicheskikh nauk, retsenzent; LOPATA, A.Ya., inzhener, redaktor; RUDENSKIY, Ya., tekhnicheskiy redaktor.

[Fastening cutting tools on automatic and semiautomatic lathes] Kreplenie instrumentov na tokarnykh avtomatakh i poluavtomatakh. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1953. 49 p. (MIRA 7:8)
(Lathes)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATA, A.Ya.

On selecting the optimum spacing between spindle bearings for automatic and semi-automatic lathes. Stan. i instr. 26 no.9: 10-14 S '55. (MLRA 9:1)

(Bearings (Machinery)) (Lathes)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATA, A.Ya., kandidat tekhnicheskikh nauk; MAN'KO, N.S., inzhener; MOSENKIS, M.G., inzhener; KOSTENKO, G.F., redaktor; TRYASUNOVA, P.G., redaktor; SKRDYUK, V.K., inzhener, redaktor.

[The 1336M and 1336R turret lathes; directions for maintaining and adjusting] Tokarno-revol'vernye stanki 1336M i 1336R; rukovodstvo po obsluzhivaniiu i naladke. Izd.2-oe. Pod red. G.F. Kostenko i P.G.Triasunova. Kiev, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1956. 64 p. (MLRA 9:6)

1.Kiyevskiy zavod stankov-avtomatov.
(Lathes)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

BONDAR', Mikhail Pavlovich, kandidat tekhnicheskikh nauk; ORLIKOV, Mikhail L'vovich, kandidat tekhnicheskikh nauk; LOPATA, Aleksandr Yakovlevich, kandidat tekhnicheskikh nauk; DUBINSKIY, L.M., inzhener, retsenzent; SOROKA, M.S., redaktor.

[Repairing automatic and semiautomatic lathes] Naladka tokarnykh avtomatov i poluavtomatov. Izd. 2-oe, perer. Kiev. Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 341 p. (MLRA 9:5)
(Lathes)

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25(5) PHASE I BOOK EXPLOITATION SOV/2109

Nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy promyshlennosti. Kiyevskoye oblastnoye pravleniye

Mekhanizatsiya i avtomatizatsiya v mashinostroyenii; [sbornik statey] (Mechanization and Automation in Machine Manufacturing; Collection of Articles) Moscow, Mashgiz, 1959. 286 p. 8,000 copies printed.

Sponsoring Agency: Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti. Ukrainskoye respublikanskoye pravleniye.

Ed. of Publishing House: N.S. Soroka; Chief Ed. (Southern Division, Mashgiz); V.K. Serdyuk, Engineer; Editorial Board: N.N. Gul'ko, S.Sh. Zaslavskiy, A.Ya. Lopata, V.M. Lych, M.L. Orlikov, L.D. Feynerman, Ye.M. Khaymovich (Resp. Ed.), and S.I. Kharagorgiyev.

PURPOSE: This book is intended for engineering and technical personnel in machine and instrument-manufacturing plants and scientific research institutes.

COVERAGE: This book contains reports made by workers of machine and instrument-manufacturing plants, scientific research institutes, and educational institutions at the 2nd Kiyev Scientific and Technical Conference devoted to problems of mechanization and automation of production processes. The Conference was sponsored by the Kiyev Oblast Administration of the NTO Mashprom (Scientific and Technical Division of the Machine-Manufacturing Industry) and the Ukrainian Republic Administration of the NTO Priborprom (Scientific and Technical Division of the Instrument Manufacturing Industry). These reports describe current problems encountered in automation of equipment, technological and control operations, and progressive work practices in manufacturing machines and instruments. I.I. Greben', S.M. Zemanskiy, A.G. Trakhanko, V.L. Masekhnikov, M.G. Mosenskiy, and A.M. Farber participated in preparing the book. There are no references.

Selection of Laws of Motion and Drive Diagrams of the Working Elements of Automatic Machines (M.L. Orlikov) 58

Problems in the Automation of Tooth-cutting Machines (A.M. Farber) 72

Improving the Operational Capabilities of the Clamping Mechanism on Automatic Lathes (A.Ya. Lopata) 87

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Some Problems of Mechanization and Automation of Welding Processes (I.I. Zaretsk) 168

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Automation of the Timing Process and Unused Productive Capacities of Technologically Closed Sectors (B.A. Babich) 276

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LOPATA, A Ya

25(7) PHASE I BOOK EXPLOITATION SOV/3072

Bondar', Mikhail Pavlovich, Aleksandr Yakovlevich Lopata, and Mikhail L'vovich Orlikov

Tokarnyye avtomaty i poluavtomaty (Automatic and Semiautomatic Lathes) Kiyev, Mashgiz, 1959. 450 p. 30,000 copies printed.

Reviewers: I.I. Kufturskiy, Engineer, and V.V. Korshunov; Eds.: V.I. Leuta, Engineer, and M.S. Soroka; Chief Ed. (Southern Division, Mashgiz): V.K. Serdyuk.

PURPOSE: This textbook is intended for students in technical and trade schools.

COVERAGE: This textbook describes constructions of automatic and semiautomatic lathes used in Soviet industry. The technology of machining as it applies to turning operations on different types of lathes is discussed. Questions of maintenance and setup of lathes, safety precautions, and the organization of the work area are examined. The authors thank A.I. Tereshchenko, S.M. Zamanskiy,

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Automatic and Semiautomatic Lathes SOV/3072

A.I. Rostovtsev, P.V. Levashev, and Ya.P. Mezivetskiy of the Moskovskiy stankozavod imeni S. Ordzhonikidze (Moscow Machine Tool Plant imeni S. Ordzhonikidze) and the Kiyevskiy stankozavod imeni Gor'kogo (Kiyev Machine Tool Plant imeni Gor'kiy) for their presentation of material on new automatic lathes. There are 13 references, all Soviet.

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATA, Aleksandr Yakovlevich; TARTAKOVSKIY, Iosif Petrovich; BONDAROVSKIY, F.P., dotsent, kand.tekhn.nauk, retsenzent; MAYEVSKIY, V.V., inzh., red.

[Key and toothed (splined) joints] Shponochnye i zubchatye (shlitsevye) soedineniia. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 129 p. (MIRA 13:5)
(Couplings)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

DUBINSKIY, L.M.; ZAMANSKIY, S.M.; LOPATA, A.Ya.; MAN'KO, N.S.; REZNIK, N.D.; SKARZHEVSKIY, R.A.; TERESHCHENKO, A.I.; KOSTENKO, G.F., red.; TARASINKEVICH, P.P., red.; KAPLINSKIY, L.A., red.; SOROKA, M.S., red.

[The multiple-spindle 1261M and 1262M automatic lathes and 1261P, and 1262P semiautomatic lathes; handbook on adjustment and servicing]Mnogoshpindel'nye tokarnye avtomaty 1261M, 1262M i poluavtomaty 12662P; rukovodstvo po naladke i obsluzhivaniiu. Izd.2. Pod red. G.F.Kostenko, P.P.Tarasinkevicha i L.A.Kaplinskogo. Moskva, Mashgiz, 1960. 170 p. (MIRA 15:11)
(Lathes--Maintenance and repair)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATA, I.

Using cement trucks for soil liming. Avt. transp. 42 no.10: 17-18 O '64. (MIRA 17:11)

1. Nachal'nik Pskovskogo avtomobil'nogo upravleniya.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

GUZIK, Zofia, mgr; LOPATA, Roman, mgr inz.

Obtaining inert varieties of monocrystalline corundum.
Hutnik P 30 no.3:83-86 Mr '63.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATA, S.

Multiplicity of organizations is harmful. Sov.torg. 33 no.5:30 My '60. (MIRA 13:11)

1. Zaveduyushchiy gortorgotdelom, g.Berdichev.
(Berdichev--Restaurants, lunchrooms, etc.)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATA, S. I.

LOPATA, S. I. -- "Chronic Firearm Osteomyelitis of the Pelvic Bones." L'vov State Medical Inst. L'vov, 1955. (Dissertation for the Degree of Candidate of Medical Sciences.0

SO: Knizhnaya letopis', No. 4, Moscow, 1956

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATA S.I.

LOPATA, S.I.

Case of bilateral ankylosis of the knee in faulty position.
Ortop.travm. i protez. no.4:62-63 Jl-Ag '55 (MLRA 8:10)

1. Iz L'vovskogo oblastnogo gospitalya (nach.L.A.Oprishko)
dlya invalidov Otechestvennoy voyny)
(KNEE, diseases,
ankylosis, bilateral)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATA, V.V., agronom

More about fall plowing. Zemledelie 5 no.12:89 D '57. (MIRA 11:1)

1.Podgorskaya mashinno-traktornaya stantsiya, Starobel'skogo rayona, Voroshilovgradskoy oblasti.
(Ukraine--Plowing)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

34456
S/125/62/000/003/001/008
D040/D113

1.2300

AUTHORS: Mandel'berg, S.L., and Lopata, V.Ye.

TITLE: The effect of the magnetic field of the welding circuit on the shape of internal welds on tubes

PERIODICAL: Avtomaticheskaya svarka, no. 3, 1962, 1-6

TEXT: Results are given of experiments in which it was revealed that the magnetic field forming inside tubes strongly affects the depth and width of welds. The experiments were conducted in order to develop a technology and equipment for welding tubes with straight and spiral joints. Tubes, 529, 720 and 1020 mm in diameter and up to 11.0 mm thick, were moved towards or away from the welding rod. The depth and width of welds were different, depending on the direction in which the tubes were moved and the tube diameter. The data obtained explained difficulties experienced in welding internal welds on tubes on welding stands operating on the principle of moving the tube away from the welding rod. The following conclusions were drawn: (1) The magnetic field of the welding circuit affects the submerged

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

S/125/62/000/003/001/008
D040/D113

The effect of the ...

arc inside the tube and deflects it in an axial direction. This phenomenon is characteristic of single-arc and multi-arc welding, particularly when one of the arcs is supplied with direct current; (2) the use of the welding system whereby the tube is moved towards the welding head, results in better weld shapes and a higher welding speed on longitudinal seams; (3) in welding spiral welds inside tubes, the arc is deflected by the magnetic field along the tube axis just as it is deflected on longitudinal straight welds, but the weld shape varies with the weld spiral angle and is poorest at small angles; (4) welding with a.c. is the simplest means of improving the shape of internal spiral welds; (5) the obtained data are of general significance and indicate practical means for the magnetic control of a powerful submerged arc. There are 5 figures, 1 table and 3 Soviet references.

ASSOCIATION: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O.Patona AN USSR (Electric Welding Institute "Order of the Red Banner of Labor" im. Ye.O.Paton, AS UkrSSR)

SUBMITTED: November 5, 1961

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

MANDEL'BERG, S.L.; LOPATA, V.Ye.

Connecting welding transformers in high speed double arc welding. Avtom.svar. 15 no.10:85-86 O '62. (MIRA 15:11)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O. Patona AN UkrSSR.
(Electric welding--Equipment and supplies)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

MANDEL'BERG, S.L.; LOPATA, V.Ye.; SEMENOV, S.Ye.

Welding gas and petroleum pipeline pipes having a diameter of 529-630 mm. with a bilateral spiral joint. Avtom. svar. 16 no.10:63-70 O '63. (MIRA 16:12)

1. Institut elektrosvarki imeni Patona AN UkrSSR.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

ACC NR: AP6036017 (A) SOURCE CODE: UR/0125/66/000/010/0044/0047

AUTHOR: Mandel'berg, S. L.; Lopata, V. Ye.; Semenov, S. Ye.; Rybakov, A. A.

ORG: Electric Welding Institute im. Ye. O. Paton AN UkrSSR (Institut elektrosvarki AN UkrSSR)

TITLE: Three-pass welding of helical joint tubes, 1020 mm in diameter, from both sides

SOURCE: Avtomaticheskaya svarka, no. 10, 1966, 44-47

TOPIC TAGS: ~~welding~~, helical joint tube, tube welding, steel ~~tube~~ welding, ~~submerged~~ arc welding, metal tube

ABSTRACT: Several variants of submerged-arc welding of helical joint 15G2S steel tubes, 1020 mm in diameter with walls 10—12 mm thick, have been tested. The best results were obtained with a three-layer weld applied from both sides. First, a "technological" weld is applied from inside in order to ensure and maintain a correct alignmnet of the faying edges. Then a half turn later, the second, outside weld and another half turn later the third, inside weld are deposited. The weld has a strength equal to that of the base metal. It had a yield strength of 35.3—50.0 kg/mm^2, a tensile strength of 55.5—63.5 kg/mm^2, an elongation of 20—29%, a reduction of area of 58.5—72.5% and a notch toughness of 3.1—8.7 kg/cm^2 at -40C. This method was introduced three years ago at the Zhdanov Metallurgical Plant im. Il'ich. Tubes

Card 1/2 UDC: 621.791.756

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

ACC NR: AP6036017

1020 mm in diameter are now successfully welded at a speed of 1.8 m/min. Despite some operational complexity, the application of this method is justified by its high welding speed, which is twice that of conventional two-sided welding of similar tubes and reduces risks of undercuts, porosity, slag inclusions and other defects. Orig. art. has: 6 figures and 1 table.

SUB CODE: 13/ SUBM DATE: 27May66/ ORIG REF: 005

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LORATANN, N.G.

Interrelationship of defensive and protective conditioned reflexes in bees in directing their flying activity. A.K. Voskresenskaia, N.G. Loratann. Trudy Inst. fiziol. no.2:542-561 '53.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATAYTE, S.I.

Certain conditions influencing the formation of glazed frost in the Memel region. Shor.rab.po sinop. no.2 97-101 '58. (MIRA 12:6)

1. Gidrometbyuro Klaypeda.
(Memel region--Ice)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATCHENKO, O.I., aspirant

Cervical dystocia in labor. Akush.i gin. no.5:39-43 '61. (MIRA 15:1)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. A.I. Petchenko) Leningradskogo pediatricheskogo meditsinskogo instituta.

(LABOR, COMPLICATED)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATENKO, Yu.K., gornyy insh.; KUZNETSOV, Yu.F., gornyy insh.

Operations of the flexible KSTI-20A conveyer combined in one unit with the wide-range "Gorniak" cutter-loader. Ugol' Ukr. 4 no.5:27-28 My '60. (MIRA 13:8)
(Coal mining machinery)
(Conveying machinery)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATENOK, A.A. (Leningrad)

Imprints from the weapon on the skin after a shot from a Makarov system pistol. Sud.-med. ekspert. 4 no.4:51-52 O-N-D '61. (MIRA 14:12)

(GUNSHOT WOUNDS)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATENOK, A.A.; BUDYAKOV, O.S.

Some conditions for blood stain formation on the parts of a moving automobile. Sud.-med.ekspert. 6 no.1:20-21 Ja-Mr '63. (MIRA 16:2)

(TRAFFIC ACCIDENT INVESTIGATION) (FORENSIC HEMATOLOGY)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATENOK, A. A., and DANILOV, E. N.

"Cellulose derivatives with deoxy- and anhydride-groups," a paper presented at the 9th Congress on the Chemistry and Physics of High Polymers, 28 Jan-2 Feb 57, Moscow, Leningrad Polytechnic Inst.

B-3,084,395

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

AUTHORS: Danilov, S. N., Lopatenok, A. A. SOV/79-28-12-4/41

TITLE: Anhydro, Desoxy, and Unsaturated Derivatives of Polysaccharides (Angidro-, dezoksi- i nenasyshchennyye proizvodnyye polisakharidov) I. Desoxy Cellulose From Cyanoethoxyl Cellulose (I. Dezoksitsellyuloza iz tsianoetoksiltsellyulozy)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 12, pp 3184-3188 (USSR)

ABSTRACT: Deoxidized monoderivatives with methylene groups in the place of secondary alcohol groups (desoses), and with methyl groups in the place of primary alcohols (methyloses) may be found in Nature and can be synthesized in different ways. Until now only few syntheses of deoxidized celluloses of the formula $(C_6H_{10}O_{5-x})_n$ have been published, predominantly with methyl groups obtained by way of tosyl ethers and iodine derivatives. To obtain these celluloses also their iodine derivatives and their unsaturated compounds were reduced (Refs 1,2). The general synthesis of the deoxidized celluloses with methylene and methyl groups were realized by P. P. Shorygin by the cleavage of ether with sodium, especially

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

Anhydro, Desoxy, and Unsaturated Derivatives of Polysaccharides. I. Desoxy Cellulose From Cyanoethoxyl Cellulose

SOV/79-28-12-4/41

in liquid ammonia (Refs 3,4). Shorygin and his cooperators used the cleavage reaction of the ethers with Na in liquid ammonia also with methylated sugars, methyl cellulose, benzyl ethers of cellulose and acetyl cellulose (Refs 5-9). Positive results were obtained in the deoxidation of cellulose only in the case of methyl cellulose, however, only a partially deoxidized methyl cellulose resulted. First the authors processed the industrially produced ethyl cellulose (Ref 10) (46.8%OC_2H_5) with Na in liquid ammonia, yet no sufficient separation of the ethoxyl groups occurred. Based on theoretical considerations an easier separation of the cyanoethoxyl groups could be expected when using cyanoethoxyl cellulose. Cellulose actually completely loses these groups, partly as acrylic acid, with methylene and partly methyl groups forming in the place of alcohol groups in the glucose members. Desoxy cellulose is formed as the final product. Part of the cyanoethoxyl groups separates under the formation of desoxy groups, another part as acrylonitrile, due to the reversible cyanoethylation reac-

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

Anhydro, Desoxy, and Unsaturated Derivatives of Polysaccharides. I. Desoxy Cellulose From Cyanoethoxyl Cellulose

SOV/79-28-12-4/41

tion in the alkaline medium. The presence of desoxy groups in the reaction product is proved by the analysis of the final product, its acetate and nitrate. There are 1 table and 13 references, 8 of which are Soviet.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet)

SUBMITTED: January 6, 1958

Card 3/3

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

SOV/79-28-12-5/41

AUTHORS: Denilov, S. N., Lopatenok, A. A.

TITLE: Anhydro, Desoxy, and Unsaturated Derivatives of Polysaccharides (Angidro-, dezoksi- i nenasyshchennyye proizvodnyye polisakharidov) II. Synthesis of Anhydrocellulose From Esters of p-Toluenesulfonic Acid (II. Sintez angidrotsellyulozy iz p-toluolsul'fokislotnykh efirov)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol 28, Nr 12, pp 3189-3191 (USSR)

ABSTRACT: Besides other syntheses of anhydrocellulose (Ref 1) only one paper exists (Ref 2) in which its synthesis is described in the form of its mixed tosyl and acetic ester from the mixed acetic and tosyl ester of cellulose on the action of caustic soda in methyl alcohol. The composition of anhydrocellulose corresponds to the formula $(C_6H_{10-2x}O_{5-x})_n$. For its synthesis the tosyl esters of the cellulose $[C_6H_{10-x}O_{5-x}(OSO_2C_6H_4CH_3)_x]_n$ were treated with sodium in liquid ammonia or with organic bases (piperidine etc.) (Ref 3). The use of piperidine yielded final products which were difficult to characterize (Ref 4). Samples of anhydrocellulose are described in the experimental

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

Anhydro, Desoxy, and Unsaturated Derivatives of Polysaccharides. II. Synthesis of Anhydrocellulose From Esters of p-Toluenesulfonic Acid SOV/79-28-12-5/41

part, which were obtained on the action of sodium in liquid ammonia on tosyl cellulose, the composition of which could be proved by its analysis and that of its acetic esters. As the tosyl groups in the cellulose enter mainly the primary, partly also the secondary, and only to a small extent the tertiary alcohol group, the authors could determine the position of the anhydride nucleus in the above anhydrocellulose samples with high probability. On the action of sodium on liquid ammonia the p-toluenesulfonic acid separates under the formation of the anhydro nuclei from the tosyl esters of cellulose which contain more than 1 tosyl group per 1 glucose member; the other tosyl groups are subjected to hydrolysis. There are 2 figures and 5 references, 1 of which is Soviet.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad Technological Institute imeni Lensovet)

Card 2/3

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

5.3400

78248
SOV/79-30-3-2/69

AUTHORS: Danilov, S. N., Anikeyeva, A. N., Lopatenok, A. A.

TITLE: Isomerization of Hydroxyaldehydes. XV. Acid Transformations of Glyceraldehyde and Its Halo-Derivatives

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 3, pp 717-723 (USSR)

ABSTRACT: Ortho-saccharinic acid was obtained by S. N. Danilov and A. M. Gakhokidze (this Journal, 1936, Vol 6, 706 Ber., 1936, Vol 69, p 2130) in reaction of 2-halo-substituted monoses with lead hydroxide. It was expected, therefore, that monoses containing unsubstituted hydroxyls at C_1 and C_2, with other hydroxyls replaced by substituents stable in an alkaline medium, will isomerize similarly in reaction with $Pb(OH)_2$ into o-saccharinic acid. It was shown that (d + l) glyceraldehyde (V) isomerized in reaction with freshly precipitated $Pb(OH)_2$ into lactic acid (VI) whereas

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Isomerization of Hydroxyaldehydes. XV

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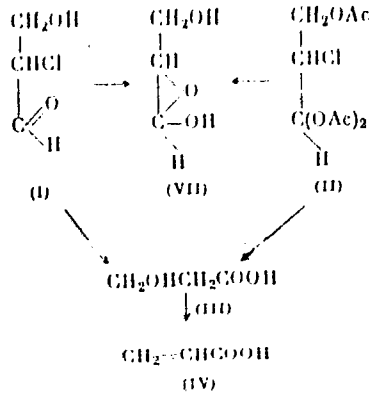
Its halo derivatives, 2-chloro-3-hydroxypropanal (I) and 1,1,3-triacetyl-2-chloropropanal (II) gave hydracrylic acid (III), which was transformed further into acrylic acid (IV).



(Equation cont'd on Card 3/6)

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

Isomerization of Hydroxyaldehydes. XV

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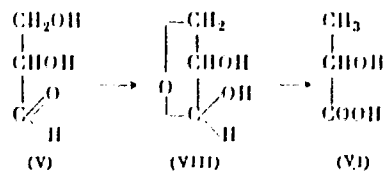
SOV/79-30-3-2/69



(V) (VIII) (VI)

The oxidation-reduction of I and II proceeds here with the participation of Cl atom in α-position with respect to the aldehyde group, and the reaction can be explained by the formation of α-glucosides (VII). The oxidation-reduction of the glyceraldehyde V takes place between the aldehyde radical and the β-alcohol radical; the transformation of V into lactic acid can be interpreted as proceeding through the β-glucoside (VIII). Considering the above, the formation of saccharinic acids from monoses can be explained by the α- and β-glucoside compounds. β-Alcohol radicals participate chiefly in the oxidation-reduction transformations of

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

Isomerization of Hydroxyaldehydes. XV

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aldoses, whereas the formation of o-saccharinic acids (IX) from 2-halo monoses can be best represented as going through α-glucosides. The following mechanisms of saccharinic acid formation are advanced: (a) isomerization of aldoses into m-saccharinic acid goes through β-glucoside compounds (X); (b) the formation of isosaccharinic acid possibly takes place with the participation of β-glucoside ketoses (XI) with migration of the H atom into β-position; (c) the formation of saccharinic acids from ketoses goes through the α-glucoside (XII); (d) the formation of p-saccharinic acid (if its suggested structure will be confirmed) from 3-ketohexose can be represented as going through <2,3,> glucosides with migration of $CH_2OH-CH<$ radical to the fourth carbon atom.

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APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

Isomerization of Hydroxyaldehydes. XV

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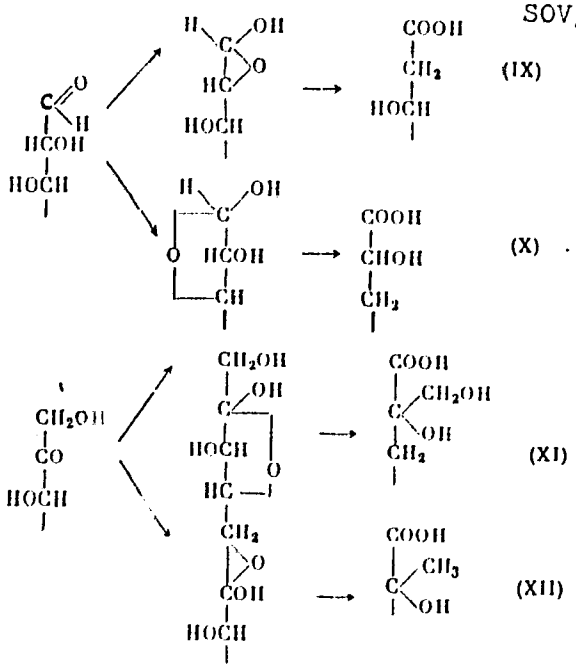

Card 5/6

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

Isomerization of Hydroxyaldehydes. XV

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SOV/79-30-3-2/69

Ion exchange resins KU-2 and EDE-10 were used in the experiments. There are 10 references. 2 U.S., 1 German, 7 Soviet. The 2 U.S. references are: M. Gibbs, J. Am. Chem. Soc., 72, 3964 (1950); J. Sowden, Adv. Carboh. Chem., 12, 76 (1957).

ASSOCIATION: Lensoviet Leningrad Technological Institute and Institute of High-Molecular Compounds, Academy of Sciences USSR (Leningradskiy tekhnologicheskiy institut imeni Lensoveta i Institut vysokomolekulyarnykh soyedineniy Akakemii nauk SSSR)

SUBMITTED: January 18, 1959

Card 6/6

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

DANILOV, S.N.; LOPATENOK, A.A.

Transformations of cyanoethoxyl- and tosylxylitol under conditions of deoxidation and anhydridization of cellulose. Zhur.ob.khim. 32 no.11:3611-3614 N '62. (MIRA 15:11)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.
(Xylitol) (Cellulose)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATENOK, Al.A.; LOPATENOK, An.A.; PETRZHAK, K.K.; DENISENKO, A.I.

Synthesis of iodinated cellulose derivatives and experimental checking of the products obtained for possible use in surgical practice. Eksp. khir. i anest. 8 no.5:21-28 S-D '63. (MIRA 17:6)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATENOK, A.A.; BOYKO, L.P.; BUDYAKOV, O.S.

A case of utilizing corpse fauna for establishing the time of death. Sud. med. ekspert. 7 no.1:47-50 Ja-Mr'64 (MIRA 17:4)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATENOK, Al.A.; LOPATENOK, An.A.; PETRZHAK, K.K.; DENISENKO, A.I.

Synthesis of iodinated cellulose derivatives and experimental checking of the products obtained for possible use in surgical practice. Eksp. khir. i anest. 8 no.5:21-28 S-D '63. (MIRA 17:6)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

L 1352-66 EWP(j)/EWT(m) RM

ACCESSION NR: AP5024396 UR/0286/65/000/015/0080/0080
678.743.22-426

AUTHOR: Kiya, N. V.; Rotenberg, I. P.; Khramova, Z. N.; Khobotova, Ya. N.; Zapol'skaya, K. I.; Lebedeva, V. S.; Kupriyanova, K. I.; Karmanskaya, M. A.; Kiselev, M. P.; Yeremin, V. I.; Lopatentova, N. A.

TITLE: A method for producing polyvinyl chloride foam. Class 39, No. 173403

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 80

TOPIC TAGS: polyvinyl chloride, foam plastic

ABSTRACT: This Author's Certificate introduces a method for producing polyvinyl chloride foam by mixing polyvinyl chloride resin with a plasticizer and additives and then saturating the resultant mass with inert gas under pressure and heating it in a high-frequency current field. The processing is made independent of the moisture-content of the resin by vacuum evaporation treatment of the plastic mass before saturation with the inert gas.

ASSOCIATION: Vladimirskiy nauchno-issledovatel'skiy institut sinteticheskikh smol (Vladimir Scientific Research Institute of Synthetic Resins)

SUBMITTED: 02Jan63 ENCL: 00 SUB CODE: MT

NO REF SOV: 000 OTHER: 000

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APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATINSKIY, A. A.

LOPATINSKIY, A. A. - "Measures providing for round-the-year construction with cinder blocks." Minsk-Poltava, 1955. Min Higher Education USSR. Belorussian Polytechnic Inst imeni I. V. Stalin. (Dissertations for degree of Candidate of Technical Sciences.)

SO: Knizhnaya letopis', No 48. 26 November 1956. Moscow.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIK, G.M.

Treatment of whooping cough with synthomycetin. Fel'dsher & akush. no. 12:51 Dec 1952. (CLML 23:3)

1. Professor.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIK, M.D.

Study of the hydrocarbon-oxidizing capacity of mycobacteria. Mikrobiologiia 33 no.2:236-238 Mr-Ap '64. (MIRA 17:12)

1. Institut biologii vnutrennikh vod AN SSSR.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

IVANOV, Ye.K.; AZHEGANOV, L.P.; LOPATIK, V.G.; FREGER, D.P., tekhn.red.

[Experience in mobilizing internal production resources in the Kalinin Distric of the city of Leningrad] Opyt mobilizatsii vnutrennikh rezervov proizvodstva v Kalininskom raione g. Leningrada. Leningrad, 1955. 54 p. (Leningradskii dom nauchno-tekhnicheskoi propagandy. Informatsionno-tekhnicheskii listok, nos.60(748)/61(749)/62(750)) (MIRA 10:12)

(Technical education)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIN, A.

Everyday work of the public cooperation commission. Zhil.-kom. khoz. 6 no.8:19 '56. (MLRA 10:2)

1. Sekretar' partbyuro partiynoy organizatsii pri domoupravlenii no.12 g. Kalinina.
(Kalinin--Apartment houses--Management)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIN, A.A.; VERKHOVODKA, K.A.

Evaporation cooling of open-hearth furnaces. Stal' 23 no.4:379-380 Ap '63. (MIRA 16:4)

1. Chelyabinskiy metallurgicheskiy zavod.
(Open-hearth furnaces--Cooling)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIN, A.B., inzhener; TOMILIN, D.S., inzhener.

Testing secondary circuits on increased voltage. Elek. sta. 28 no.6: 51-52 Je '57. (MIRA 10:8)
(Electric insulators and insulation)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIN, A.F.

Tectonic structure of [illegible], the [illegible] and A.S.S.R. and the adjacent area of Stavropol [illegible] on gravimetric data. Geol. nefti i gazu [illegible]

1. Severo-Kavkazskoye geologicheskoye upravleniye.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIN, A.G., inzh.; PLAKSIN, I.N., prof.

Effect of alkalies on the flotability of gold. Nauch. dokl. vys. shkoly; gor. delo no.1:209-213 '59. (MIRA 12:5)

1.Chlen-korrespondent AN SSSR (for Plaksin). Predstavlena kafedroy metallurgii blagorodnykh metallov Moskovskogo instituta tsvetnykh metallov i zolota im. M.I. Kalinina.
(Flotation) (Gold)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIN, A. G., Cand Tech Sci (diss) - "Investigation of the effect of certain reagents on gold flotation". Moscow, 1960. 17 pp (Min Higher and Inter Spec Educ RSFSR, Krasnoyarsk Inst of Nonferrous Metals im M. I. Kalinin), 150 copies (KL, No 15, 1960, 135)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

16.2000

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SOV/149-60-1-5/27

AUTHORS: Lopatin, A. G., Plaksin, I. N.

TITLE: Investigation of Adsorption Layers of Xanthogenate on Gold by Means of Radioactive Isotopes

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Tsvetnaya metallurgiya, 1960, Nr 1, pp 35-42 (USSR)

ABSTRACT: Isoamyl xanthogenates tagged with S^{35} and desorbent reagents were used to determine their reaction with a pure gold powder, mesh -0.4, +0.2 mm. The fixation of xanthogenate on gold is assumed to be the result of reaction:

$$2Au^{+} + 2X_{c} + H_2O + 0{,}5O_2 = 2AuX_{c} + 2OH^{-}$$

However, this reaction applies only to thin layers in presence of free areas of metallic gold. The nature of subsequent layers depends on the diffusion of gold ions

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

Investigation of Adsorption Layers of Xanthogenate on Gold by Means of Radioactive Isotopes

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SOV/149-60-1-5/27

through the xanthogenate film. The rate of diffusion decreases with the thickening of the film. While only a very thin layer consists of gold xanthogenate, subsequent layers become poorer in gold ions and finally xanthogenate alone is deposited due to weak dispersion forces of molecular interaction. Film formation is influenced by the following factors: Maximum adsorption is observed in a neutral medium with pH = 7. The same was observed by M. D. Ivanovskiy in connection with xanthogenate adsorption on platinum. A simultaneous reaction of gold with xanthogenate and cyanide causes the formation of a xanthogenate film despite the dissolving action of cyanide both on gold and gold xanthogenate. The influence of sodium sulfide is entirely different. Being the strongest depressing agent, it prevents the formation of a xanthogenate film, which may be due to active S^{2-} ions with the gold surface and the formation of AuS and AuS_2 sulfides on it. These facts are confirmed by the desorption of xanthogenate films by NaCN and Na_2S. While the action of the former is

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

Investigation of Adsorption Layers of Xanthogenate on Gold by Means of Radioactive Isotopes

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SOV/149-60-1-5/27

that of a solvent, the latter acts on the film by displacing the collecting agent from it and replacing it with gold sulfides. However, this desorption is incomplete and ends at a level of about 2.5-3 monolayers of the film. These tests conducted with S^{35} and Au^{198} showed that under the action of alkali no gold went into solution while desorption was limited to the upper layers of the film. However, Na_2S picked up a constant quantity of gold $1.5 \cdot 10^{-8}$ g-ions, which were probably present in the film in the form of gold ions. An intensive dissolving of gold by desorption with cyanide proves a mosaic-shaped structure of the xanthogenate film and the presence of free metal areas which are rapidly attacked by NaCN. With increasing xanthogenate concentrations, the film grows not only in thickness but also in width, covering the open areas and delaying the dissolving action of NaCN. For better understanding of the nature of the film, pyridine was used as desorbent. No chemical reaction being involved,

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

Investigation of Adsorption Layers of Xanthogenate on Gold by Means of Radioactive Isotopes

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SOV/149-60-1-5/27

the desorption is complete. The authors conclude that in the regular concentrations (less than 0.1 g/liter) for flotation, xanthogenate forms films which closely approach the stoichiometric ionic ratio of X_c^- and the metal. This layer is most stable on the metal surface. A further growth of layers in thickness is not necessary for flotation as the upper layers are less stable and do not enhance water-repellent properties. There are 3 tables; 4 figures; and 3 references, 1 Soviet, 1 U.S., 1 U.K. The U.S. and U.K. references are: J. Leja, Preprinted From the Proceedings of Second International Congress of Surface Activity, London, Butterworths Scientific Publications, 550-556 (1957); A. M. Gaudin, Schumann, J. Phys. Chem., 40, 257 (1936).

ASSOCIATION: Krasnoyarsk Institute of Nonferrous Metals. Chair of Metallurgy of Noble Metals (Krasnoyarskiy institut tsvetnykh metallov. Kafedra metallurgii blagorodnykh metallov)

SUBMITTED: October 23, 1959

Card 4/4

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIN, A.G.

Studying silver compounds in Maykain deposit ores. TSvet. met. 36 no.1:70-74 Ja '63. (MIRA 16:5)
(Maykain region--Ore deposits) (Silver compounds)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

PLAKSIN, I.N.; LOPATIN, A.G.

Effect of alkalis on the floatability of native gold.
Izv. vys. ucheb. zav.; tsvet. met. 3 no.3:38-44 '60. (MIRA 14:3)

1. Krasnoyarskiy institut tsvetnykh metallov, Kafedra metallurgii blagorodnykh metallov.
(Flotation) (Gold)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

ACCESSION NR: AP4009190 S/0288/63/000/003/0109/0112

AUTHOR: Zinov'yev, G. S.; Lopatin, A. G.; Trubetskoy, A. I.

TITLE: Transistorized nanosecond pulse generator

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izv. Seriya tekhnicheskikh nauk, no. 3, 1963, 109-112

TOPIC TAGS: pulse generator, transistorized pulse generator, test instrument, tunnel diode, nanosecond pulse generator, pulse shaper, short pulse generator

ABSTRACT: Generators of various types of electrical pulses are indispensable for tuning and testing of nuclear electronic equipment. In this article a brief description and calculations are given for a nanosecond pulse generator based on tunnel diodes and a transistor. The generator consists of a master stage, shaping circuit and amplifier. The master stage is a multivibrator based on tunnel diode TD_1 (fig. 1), the pulse shaper is a driven multivibrator based on tunnel diode TD_2. The pulse repetition frequency of the master stage is determined by the inductance of timing coil L_1 or L_2. Oscillations are generated according to

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

ACCESSION NR: AP4009190

the cycle БВГД (fig. 2). Formulas with application of approximation of tunnel diode characteristics by a piece-wise exponential function were used for calculation of the repetition frequency and duration of the pulses (B. N. Kononov, A. S. Sidorov, Tunnel'ny*ye diody* i ikh primeneniye v triggerakh. V sb. "Poluprovodnikovy*ye pribory* i ikh primeneniye" pod red. A. A. Fedotova, vy*p. 7, Izd-vo "Sov. radio", 1962). The duration of the pulse is equal to the time of change in current in the inductance from I_1 to I_2 on the section ВГ of the volt-ampere characteristics.

$$t_и = 3L\,\frac{I_1 - I_2}{U_2 - U_3}\left[0{,}5 - \frac{U_2 - E}{U_3 - U_2} + \left(\frac{U_2 - E}{U_3 - U_2}\right)^2 \ln\left|1 + \frac{U_3 - U_2}{U_2 - E}\right|\right]. \qquad (5)$$

The duration of the pause is determined by the time of change of the current in the inductance from I_2 to I_1 on the section АБ.

$$t_п = 2L\,\frac{I_1}{U_1}\left[-\left(\frac{I_1 - I_2}{I_1}\right)^{1/2} + \frac{E - U_1}{U_1}\ln\left|1 + \frac{U_1}{E - U_1}\left(\frac{I_1 - I_2}{I_1}\right)^{1/2}\right|\right]. \qquad (7)$$

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

ACCESSION NR: AP4009190

The generator has an output pulse duration of 10 nsec at a repetition frequency in two bands from 100 kcs to 2000 kcs and 2 mcs to 10 mcs. Calculated parameters differed from experimentally obtained values by less than 10%. Orig. art. has: 2 figures, 8 formulas and 1 table.

ASSOCIATION: Institut radiofiziki i elektroniki Sibirskogo otdeleniya AN SSSR, Novosibirsk (Institute of Radio Physics and Electronics of the Siberial Department of the Academy of Sciences, SSSR)

SUBMITTED:	27Dec62	DATE ACQ:	10Feb64	ENCL:	02
SUB CODE:	EC	NO REF SOV:	001	OTHER:	001

Card: 3/5

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

ACCESSION NR: AP4009190

ENCL: 01

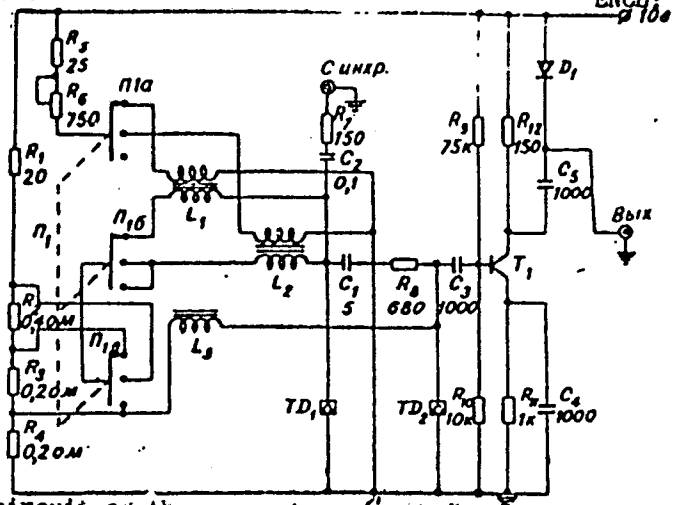

Fig. 1 -- principle circuit of the generator. Синхр -- synchronization; Вых -- output; П1а б, в -- switch; T_1 -- transistor type P-418

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

ACCESSION NR: AP4009190 ENCL: 02

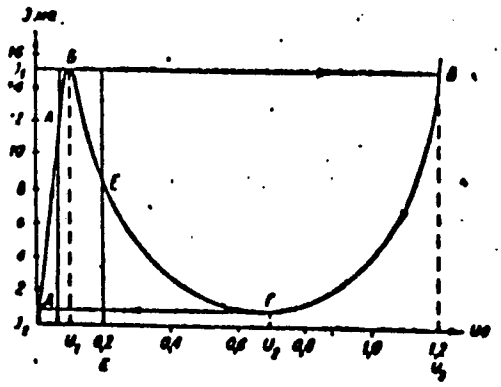

Fig. 2 -- volt-ampere characteristics of gallium arsenide diode.
Jμa -- I in milliamps; U/в -- U in volts

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

L 22970-66 EWP(k)/EWT(m)/EWP(t) IJP(c) JD/EW

ACC NR: AP6007899 SOURCE CODE: UR/0420/65/000/002/0090/0097

AUTHOR: Lopatin, A. I.

ORG: None

TITLE: Measurement of the displacement of the worked piece during explosive forming

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 2, 1965, 90-97

TOPIC TAGS: explosive forming, chronometer, time measurement, metalworking

ABSTRACT: The author makes a detailed analysis of the discrete method of measuring the displacement of a worked piece. The method is based on the measurement of time intervals corresponding to the arrival of the worked piece to a prescribed point. The pulse-counting chronometer described by P. I. Pavlenko (Schetno-impul'snyy khronometr. Fizmatgiz, M., 1963) is used for the measurement of short intervals of time. The analysis shows that the method employed is the most convenient and accurate one. In order to improve the accuracy in the measurement of very short intervals of time ($10^{-4} - 10^{-5}$ sec) it is necessary to employ pulse-counting chronometers with an oscillation frequency of the generator of the standard frequency of the order of $10^6 - 10^7$ cps. The greatest accuracy in the determination of the instant the worked piece arrives at the prescribed point is provided by electric contact sensors. In cases where leakage from the electric contacts is possible, it is necessary to use highly sensitive contactless switches. Orig. art. has: 6 figures and 3 tables.

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 005

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

S/147/59/000/04/020/020
E031/E415

AUTHOR: Zolotukhin, V.K.

TITLE: The Scientific-Technical Conference at Khar'kov Aviation Institute

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Aviatsionnaya tekhnika, 1959, Nr 4, pp 161-165 (USSR)

ABSTRACT: In May 1959, the 16th Conference of Professorial and Teaching Staff took place.

Mathematics and Mechanics Section. The following papers were read: "A Spectral Representation of the Theory of Axisymmetric Turbulence" by Candidate of Physical and Mathematical Sciences G.M.Teranova; "Some Evaluations for Functions with Positive Real Parts" by Assistant G.S.Shpak; "Existence, Uniqueness and Correctness Theorems for Mixed Systems of Functional Equations" by Docent, Candidate of Physical and Mathematical Sciences M.N.Tikhov; "On the Application of Bell and Chebyshev Points to the Solution of Some Problems in the Synthesis of Four Bar Linkages" by Docent, Candidate of Physical and Mathematical Sciences Ya.I.Geronimus; "The Influence of the Structural Properties of Functions on the Convergence Almost Everywhere of their Conjugate Fourier Series" by Docent, Candidate of Physical and Mathematical Sciences B.I.Golinskiy.

General Technological Section. The following papers were read: "The Relation Between the Compton Length of Waves, the Length of de Broglie Waves and the Acceleration Potential for High Energy Particles" by Docent, Candidate of Physical and Mathematical Sciences I.Ya.Mints; "The Problem of Determining the Heat Transfer Coefficient of Conductors" by Senior Instructor P.P.Bezuglov; "An Electron-Graphical Method of Investigating the Structure of Matter" by Assistant I.Ya.Surovtsev; "On the Results of the VIII th Mendeleyev Congress of Chemists of the USSR" by Docent, Candidate of Chemical Sciences E.I.Krech.

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Electrical and Radio Technology Section. The following papers were read: "On the Problem of the Optimum Passage of Transients in an Electric Drive with a Controlling Exciter" by Docent, Candidate of Technical Sciences M.M.Perel'mutter; "The Experimental Determination of the Reactances in Synchronous Machines" by Senior Instructor S.V.Khmel'nitskiy; "An Experimental Method of Investigating Electric Fields" by Assistant A.I.Loratin; "A Discrete Transformer of Current into Code Signals with Magneto-Electric Comparison Units" by Docent, Candidate of Technical Sciences D.M.Bulavev; "The Application of Infrared Instruments in Aviation" by Docent, Candidate of Technical Sciences I.D.Artemunov.

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General Engineering Section. "The Adaptation of a Thermobaric Chamber to the Simulation of the Sinking of a Mine Shaft in Quicksand and Certain Results of Investigations to Determine the Mechanical Characteristics of Sand at Different Temperatures and Humidities" by Docent, Candidate of Technical Sciences S.Yu.Plyshenko; "Friction and Abrasion in Cermets" by Docent, Candidate of Technical Sciences O.I.Goldeyeva; "The Construction of Multi-Satellite Planetary Gears" by Assistant V.A.Tkachenko; "The Influence of Work Hardening on the Fatigue of Threaded Connections" by Assistant V.M.Bondrenko; "Investigation of Cermets Slide Bearings" by Assistant A.S.Proven.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIN, A.I. (Ussuriysk)

Erythromycin in the treatment of nongonorrheal urethritis in males. Antibiotiki 10 no.8:749-752 Ag '65.

(MIRA 18:9)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIN, A.I.

Clinical value of the antibiotic sensitivity test of urethral flora in nongonorrheal urethritis. Urologiia no.4:31-34 '63. (MIRA 17:10)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIN, A.I.

Late results of treatment in nongonorrheal urethritis.
Vest. derm. i ven. no.2:61-63 '64. (MIRA 17:11)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

LOPATIN, A.I. (Ussuriysk); MAKAREVICH, V.T. (Ussuriysk)

Late results of treatment of chronic nongonorrheal prostatitis with paraprostatic novocaine-antibiotic block. Urologiia no.6:38-41 '64. (MIRA 18:11)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510(

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

L 32678-66 EWT(m)/EWP(k)/EWP(t)/ETI IJP(c) JD/HW

ACC NR: AP6006440 SOURCE CODE: UR/0420/65/000/003/0084/0085

AUTHORS: Lopatin, A. I.; Balyberdin, V. V.; Chumachenko, V. S.; Fomenko, V. I.; Ivanov, G. V.; Trubchaninov, F. A.; Kirichenko, R. F.

ORG: none

TITLE: Radiotechnical method for measuring the motion parameters of the blank during sheet metal stamping

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 3, 1965, 84-85

TOPIC TAGS: metal stamping, test instrumentation, UHF instrument

ABSTRACT: A mostly qualitative description of a radiotechnical method for measuring the displacement of the die during sheet metal stamping is briefly presented. The method consists of attaching a metal "flag" to the die and using this flag to partially block the path between two ultrahigh frequency waveguides, one of which serves as a transmitter and the other as detector. After calibrating the change in transmitted UHF energy as a function of flag position in the gap between the guides, this curve can be used to interpret the die motion (position or velocity) as recorded on an oscilloscope during a stamping operation. Any centimeter range UHF generator can be used. A sample calibration curve and a sample stamping curve are presented without details or specifications as to operating ranges, accuracy, etc. Orig. art. has: 3 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 001

Card 1/1

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000930510

L 40782-66 EWT(1)/EWT(m)/T/EWP(t)/ETI/EWP(k) IJP(c) DS/JD/HW
ACC NR: AP6018611 SOURCE CODE: UR/0420/65/000/004/0107/0109

AUTHOR: Lopatin, A. I.; Balyberdin, V. V.; Chumachenko, V. S.; Gurov, V. M.; Trubchaninov, F. N.; Kirichenko, R. F.; Fomenko, F. I.

ORG: Kharkov Aviation Institute (Khar'kovskiy aviatsionnyy institut)

TITLE: Investigation of an electrohydraulic source and some of its potential applications

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 4, 1966, 107-109

TOPIC TAGS: electrohydraulic effect, shock wave, electric discharge

ABSTRACT: The authors describe a highly efficient coaxial electrohydraulic source for industrial use. A diagram of the device is shown in figure 1. The annular aluminum electrode 2 is fastened to textolite base 1 by bolts. Stainless steel electrode 3 is fastened to the base inside the aluminum electrode and located on its central axis. Voltage is fed to the annular and central electrodes from a battery of condensers through a controllable discharger. The electrical discharge between the electrodes develops in the form of individual spark channels. A schematic diagram of the experimental unit used for testing the source is shown in figure 2.

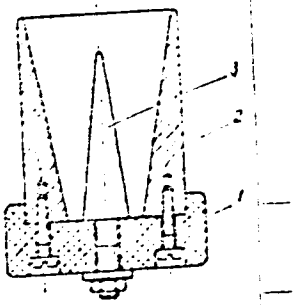

Figure 1

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Voltage from regulator *1* is fed through step-up transformer *2* and high-voltage rectifier *3* to condenser battery *5* with a total capacitance of 6 μf. The charging voltage is monitored on electrostatic kilovoltmeter *6*. The current in the discharge circuit is registered by a low--inductance Rogowski loop with an integrating circuit connected in the coaxial cable. The signal from this integrating circuit is fed to one channel of an oscillograph. A capacitance signal from the voltage divider is fed to the second channel of the oscillograph through a 75 Ω impedance matching resistor. Analysis of the oscillograms shows that the cyclic frequency of the discharge is 925 Kc while the inductance of the discharge circuit is 0.2 μh. The current amplitude of the discharge reaches 16 Ka when 10 Kv is applied to the condenser plates. Water velocity is a linear function of discharge voltage with the approximate equation $W=4V+1$, where W is water velocity in m/sec and V is voltage in Kv. At a distance of 3 m

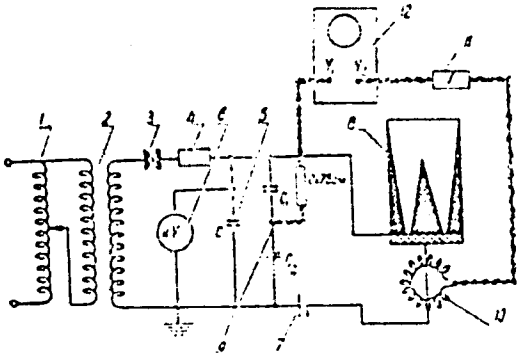

Figure 2: 1--voltage regulator; 2--step-up transformer; 3--20 Kv high--voltage rectifier; 4--60 KΩ discharge resistor; 5--IM-50-3 condenser battery; 6--S-96 kilovoltmeter; 7--discharger; 8--electrohydraulic source; 9--D6-2 voltage divider; 10--Rogowski loop; 11--integrating circuit; 12--OK-17M double beam oscillograph

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from the source, the cross sectional area of the water stream is no more than three times that of the source. Orig. art. has: 4 figures.

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