ARTAMONOV, L.V.; RIVOSH, L.A.

Results of the combined use of aerial electric prospecting and aerial magnetic surveying in the Baltic Crystalline Shield. Sov. geol. 4 no.8:98-105 Ag '61. (MIRA 16:7)

1. Zapadnyy geofizicheskiy trest.
(Baltic Shield—Aeronautics in geology)

ARTAMONOV, L.V.; KATSKOV, A.I.

Use of geophysical methods in geological surveying and prospecting in Sweden. Razved. i okh. nedr 28 no.8:58-61 Ag '62. (MIRA 15:8)

1. Zapadnyy geofizicheskiy trest.
(Sweden—Prospecting—Geophysical methods)

YAKOVLEV, V.A.; MIKHAYLOVSKAYA, A.M.; ARTAMONOV, M.A.; SLAVIN, Yu.T.; STRAKHOV, K.I.; KORNYUSHIN, A.K.

Induction furnace for melting [magnesium] alloys; suggestion by V.A.IAkovlev and others. Prom.energ.11 no.6:28-30 Je '56. (MLRA 9:9)
(Electric furnaces) (Magnesium alloys)

KOTSEN, M.Ye.; ARTAMONOV, M.A.

Prospecting for carbonatite using the aeromagnetic method as revealed by a study in the Eastern Sayan Mountains. Sov. geol. 8 no.5:119-124 My '65. (MIRA 18:7)

ARTAMONOV, M.D., kand.tekhn.nauk, insh.-polkovnik

Guiding systems for antiaircraft rockets. Artill. zhur. no.1: 48-52 Ja '58. (MIRA 11:2)
(Guided missiles)

AUTHOR:

PHASE I BOOK EXPLOITATION SOV/6228

Agafonov, Vasiliy Prokhorovich, and Aleksey Valer'yanovich Sakovich

Voyennaya svyaz' (Military Communications) Moscow, Voyenizdat M-va obor. SSSR, 1962. 232 p. Errata slip inserted. 8000 copies printed.

Ed.: A. V. Vrublevskiy, Engineer-Colonel; Tech. Ed.: T. F. Myasnikova.

PURPOSE: This book is intended for officers of ground forces and may also be useful to officers and noncommissioned officers in signal communications who are studying problems in military communications.

COVERAGE: The book discusses the means and types of military communications, their tasks and requirements, and methods for the organization and development of communications. According to the annotation, the book is a reflection of the viewpoints of the authors and is not to be considered as an official statement regarding military communications. The book is based on Soviet and non-Soviet open-

Card 1/4 3

source materials. Chapter II, Section 2 was written by V. S. Chernyshev and V. P. Yagodin; Chapter II, Section 3, by M. D. Artamonov; and Chapter II, Sections 4 and 5, by K. F. Minalovich. No personalities are mentioned. There are 27 references, all Soviet.

TABLE OF CONTENTS:

Military Communications

SOV/5228

Card 3/5

S/018/62/000/006/001/001
D036/D113

AUTHOR: Artamonov, M. D., Colonel-Engineer

TITLE: Controlling the flight of antiaircraft rockets

PERIODICAL: Voyennyy vestnik, no. 6, 1962, 84-87

TEXT: General principles of remote-control and homing systems of antiaircraft rocket control are given. The command and radio-beam methods of remote control are discussed. To increase long-range accuracy, remote control is supplemented with a homing system for finally homing the rocket on the target. Compared with radiotechnical homing systems, thermal (infrared) homing systems have the disadvantages of comparatively short range and undue sensitivity to weather conditions, e.g. solar rays. Active and semiactive principles of radiotechnical homing are given. Combined systems of control are used for long ranges. In such systems the rocket is launched vertically or from an inclined ramp and controlled for the first few seconds of flight by an autonomous system consisting of an autopilot and a programmer. After it has reached a certain speed and is orientated towards the target, a remote-control system takes over until the homing

Card 1/2

ARTAMONOV, M., polkovnik

Train specialists for joint operations. Voen. vest. 41 no.4: 96-97 Ap '62. (MIRA 15:4)

(Radio, Military)

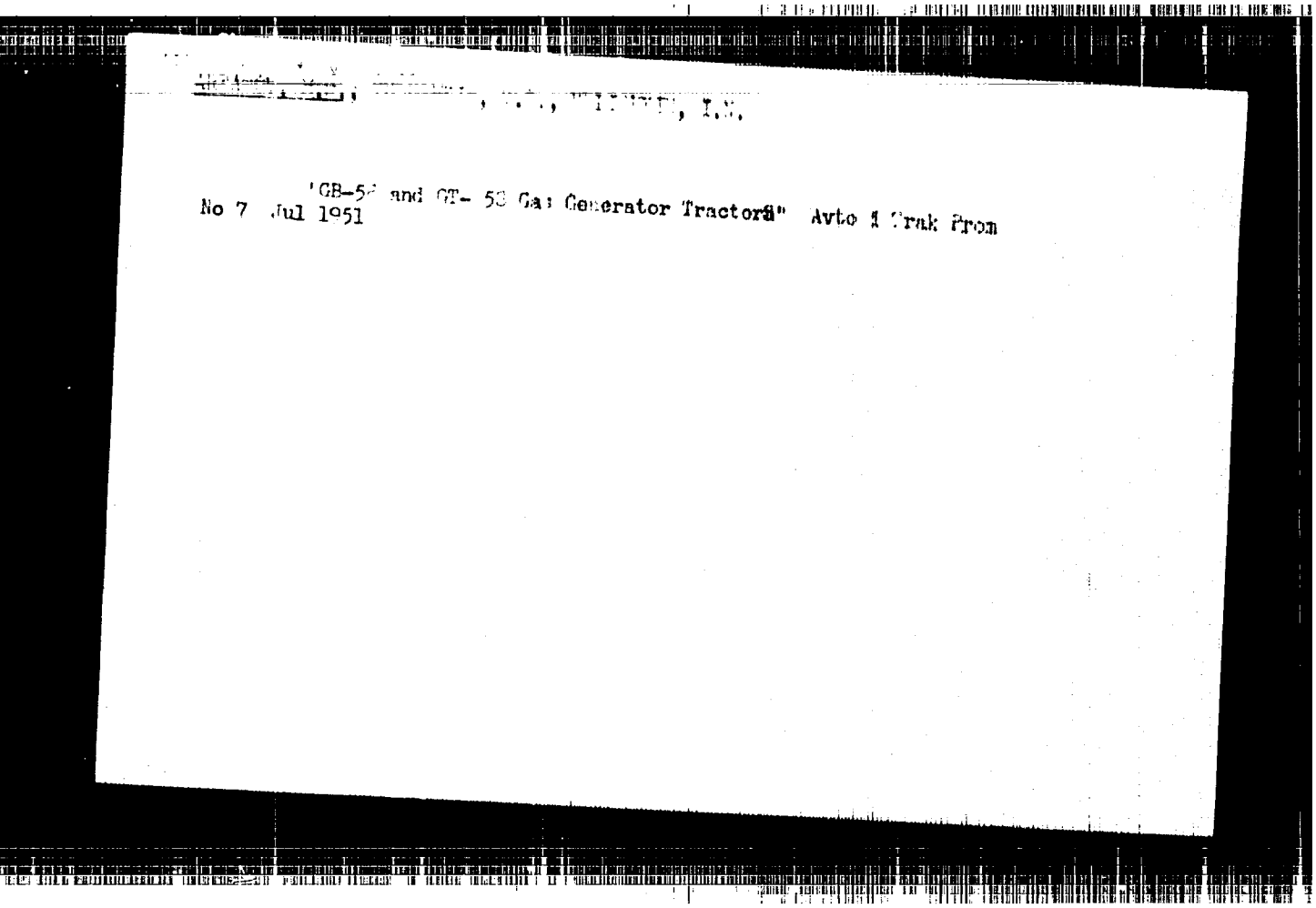
AR'AMONOV, M., inzhener-polkovnik, kand.tekhn.nauk

Methods of guiding antiaircraft rockets to a target. Voen.vest. 42 no.9:90-93 S '62. (MIRA 15:8)
(Guided missiles) (Antiaircraft artillery)

ARTAMONOV, M., inzhener-polkovnik, kand. tekhn. nauk

Automatic pilots in antiaircraft rockets. Voen. vest. 43 no.9: 82-84 S '63. (MIRA 16:10)

(Rockets (Ordnance)—Controls)



No 7 Jul 1951 "GB-5[illegible] and GT- 53 Gas Generator Tractors" Avto i Traktorom

ARTAMONOV, M.D., kandidat tekhnicheskikh nauk; VELICHKIN, I.N., inzhener; AKOPYAN, S.I., kandidat tekhnicheskikh nauk, redaktor; GOSTEV, B.I., kandidat tekhnicheskikh nauk, redaktor; VASIL'IEV, A.V., kandidat tekhnicheskikh nauk, redaktor; KRISTI, M.K., professor, redaktor; L'VOV, Ye.D., professor, redaktor; MALASHKIN, O.M., inzhener, redaktor; YUDUSHKIN, N.G., inzhener, redaktor.

[Investigation of the G-58 gas engine] Issledovanie gazogeneratornogo dvigatelia G-58. Moskva, Gos.nauchno-tekh.izd-vo mashinostroit.lit-ry, 1954. 26 p. (Moscow. Gosudarstvennyi soiuznyi nauchno-issledovatel'skii traktornyi institut [Trudy], no.11). (MLRA 9:1)

1.Direktor nauchno-issledovatel'skogo avtotraktornogo instituta (for Akopyan). (Gas and oil engines)

ARTAMONOV, Mikhail Dmitriyevich; MIKHAYLOVSKIY, Yuriy Vsevolodovich; POZNYAKOV, V.P., inzhener, retsenzent; GATSKEVICH, V.A., inzhener, retsenzent; SOLOV'YEV, N.S., redaktor; PITERMAN, M.L., redaktor; KOLESNIKOVA, A.P., tekhnicheskiy redaktor; VOLKHOVER, R.S., tekhnicheskiy redaktor

[Mechanical traction for lumber transportation roads] Mekhanicheskaia tiaga lesovoznykh dorog. Moskva, Goslesbumizdat, 1954. 406 p.
(Lumbering--Transportation) (Transportation) (MLRA 8:4)

ARTAMONOV, M. D.

M/5
743.281
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Gazogeneratornyye Traktory Teoriya, Konstruktsiya i Raschet (Gas-Generator Tractors; Theory, Construction and Computation, by) N. G. Yudushkin i M. D. Artamonov. Moskva, Mashgiz, 1955.
243 p. Diagrs., Tables.
"Literatura": p. (242)

AKTAMONOV, Mikhail Dmitriyevich

[Manual for tractor operators engaged in lumbering] Posobie traktoristu lesozagotovok. Moskva, Goslesbumizdat, 1957. 227 p. (Tractors) (MLRA 11:4)

ART'AMONOV, M.D., dots., kand. tekhn. nauk.

Increasing the power of gas-producing automobile and tractor engines. Trudy Kaf. "Avt. i trakt." VZMI no.1:95-109 '57. (MIRA 11:3)
(Automobiles--Engines) (Tractors--Engines)

ARTAMONOV, Mikhail Dmitriyevich; MIKHAYLOVSKIY, Yuriy Vsevolodovich; PUSHKAREV, B.A., retsenzent; MOROZOV, K.P., retsenzent; ZAYCHIK, G.I., red.; GORYUNOVA, L.K., red.izd-va; MACHURINA, A.M., tekhn.red.

[Traction machinery in the logging industry] Tiagovye mashiny na lesozagotovkakh. Moskva, Goslesbumizdat, 1959. 326 p. (MIRA 13:5)

(Tractors)

ARTAMONOV, M.D., kand. tekhn. nauk, dots.; PANKRATOV, G.P., kand. tekhn. nauk, dots.; D'YACHENKO, N.Kh., doktor tekhn. nauk, prof., retsenzent; BUDNIKOV, V.A., kand. tekhn. nauk, red.; SIROTIN, A.I., red. izd-va; EL'KIND, V.D., tekhn. red.

[Theory and design of motor-vehicle and tractor engines] Teoriia, konstruktsiia i raschet avtotraktornykh dvigatelei. Moskva, Mashgiz, 1963. 520 p. (MIRA 16:10)

1. Zaveduyushchiy kafedroy Leningradskogo politekhnicheskogo instituta im. M.I.Kalinina (for D'yachenko).
(Motor vehicles--Engines)
(Tractors--Engines)

ARTAMONOV, Mikhail Dmitriyevich; MIKHAYLOVSKIY, Yuriy Vsevolodovich; GATSKEVICH, V.A., red.

[The locomobile and diesel engine in lumbering] Lokomobil' i dizel' v lesnoi promyshlennosti. Moskva, Izd-vo "Lesnaia promyshlennost'," 1964. 263 p. (MIRA 17:7)

[illegible], I. I., TY[illegible]OV, S. YE.

Forest Management

Organization and management of the collective farms woods and protective forests. Les khoz. 5 no. 9, 1952

9. Monthly List of Russian Accessions, Library of Congress, November 1952 1953, Uncl.

KHRAMENKOVA, R.M.; UTKIN, A.G.; ARTAMONOV, M.I., pomoshchnik mastera i uchashchiysya vechernego tekhnikuma; KORCHAGIN, A.P., pomoshchnik mastera i uchashchiysya vechernego tekhnikuma; ARKHIPOV, A.P., pomoshchnik mastera i uchashchiysya vechernego tekhnikuma.

Needed brochure on carpet weaving ("Mastering wide, double-sheeting Jacquard looms for carpet weaving" by B.E. Fedosenko. Reviewed by R.M. Khramenkova and others). Tekst. prom. 17 no.8: 66 Ag '57. (MLRA 10:9)

1. Zaveduyushchiy tekhnicheskoy bibliotekoy Kyuberetskogo kombinata (for Khramenkov). 2. Nachal'nik tkatskogo tsekha Kyuberetskogo kombinata (for Utkin).

(Jacquard weaving) (Fedosenko, B.E.)

ARTAMONOV, M.I., gornyy inzh.

Improving ventilation systems in pneumatic coal preparation plants. Sbor. rab. po silik. no.3:181-185 '61. (MIRA 15:10)

1. Laboratoriya sushki i pylevlavlivaniya. Gosudarstvennogo proyektno-konstruktorskogo i nauchno-issledovatel'skogo instituta po obogashcheniyu i briketirovaniyu ugley.
(Coal preparation plants—Ventilation) (Dust—Removal)

S/194/62/000/006/209/232
D271/D308

AUTHORS: Andreyev, V.S., and Artamonov, M.M.

TITLE: Transistorized key divider for low frequencies

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 6, 1962, abstract 6-7-217 y (V sb. Poluprovodnik. pribory i ikh primeneniye, no. 7, M, Sov. radio, 1961, 296-311)

TEXT: The authors consider design features and results of an experimental investigation of a transistorized key divider which includes a selective RC amplifier with a double T-bridge. The following conclusions are reached: 1) The circuit permits a stable division of harmonic oscillations by any integer up to 15-20; the lowest output frequency is of the order of 10 c/s; this is determined by the possibilities of the given circuit of the selective amplifier. 2) The key divider is stable when the supply voltage varies between 3 and 15 V, and the ambient temperature - between 18° and 60°C; consumed power is 45 mW which is 100 times less than in the electron tube variant of the circuit. 3) As in all key dividers,

Card 1/2

KNYAZEV, N.N.; VOLKOV, N.A.; ARTAMONOV, M.N.

Weight and size indices of marine gas turbine plants with free piston gas producers. Trudy TSNIIMF 7 no.34:79-88 '61.
(MIRA 14:8)

(Marine gas turbine) (Marine diesel engines)

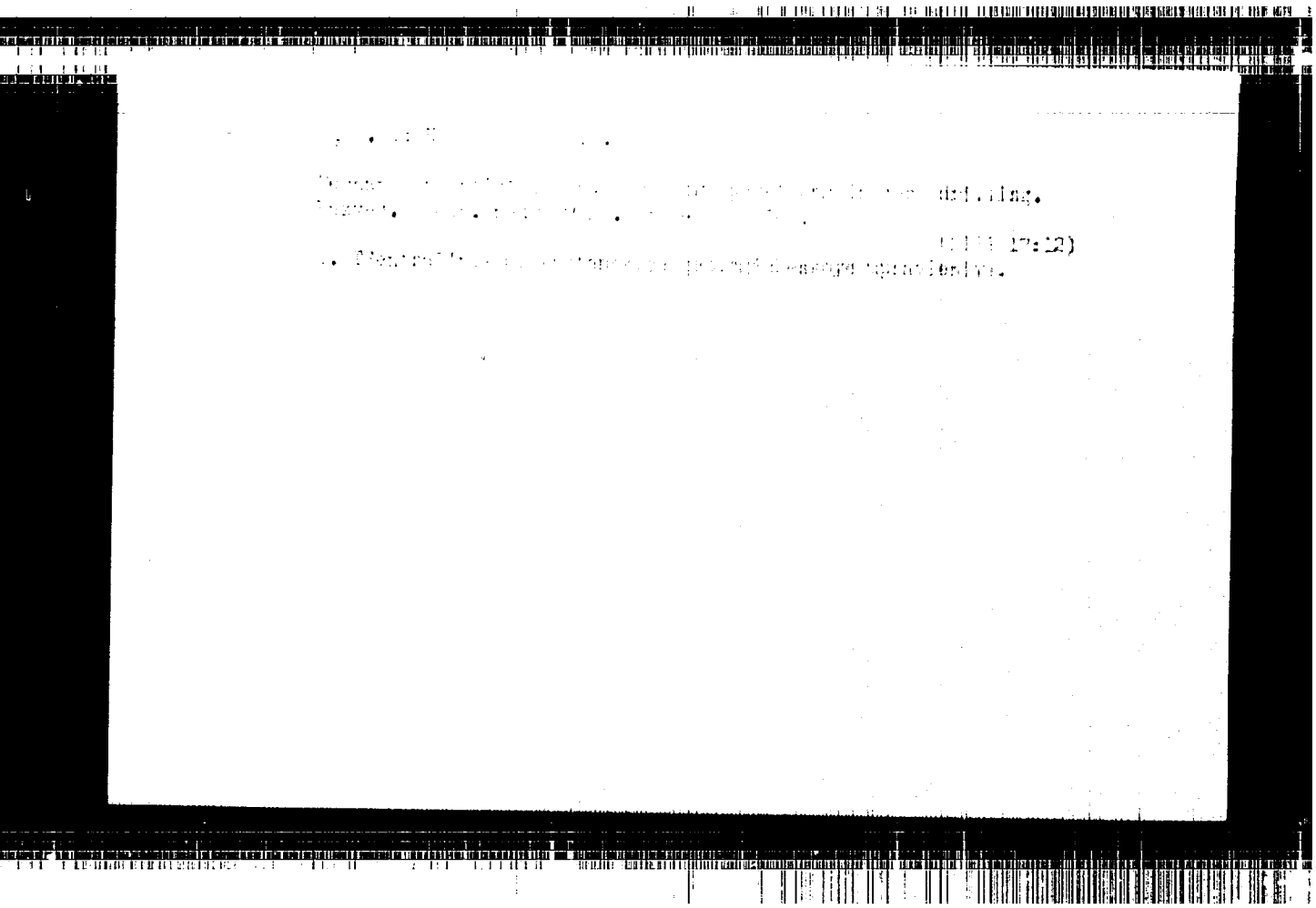
VORONOV, F.D.; TRIFONOV, A.G.; KHUSID, S.Ye.; DIKSHTEYN, Ya.I.; VAL'PETER, E.V. SNEGIREV, Yu.B.; ANTIPIN, V.G.; Prinimali uchastiye: SMIRNOV, L.A.; KAZAKOV, A.I.; YELIZAROV, A.G.; KULAKOV, A.M.; KOZHANOV, M.G.; ZARZHITSKIY, Yu.A.; ARTAMONOV, M.P.; GOL'DEYBERG, I.B.; ROMANOV, V.M.; NOVIKOV, S.M.; MAYEVSKIY, A.B.; DMITRIYEV, I.; MANZHULA, M.; BEREZOVOY, I.A.; ZUTS, K.A.; BADIN, S.N.; TATARINTSEV, G.; MITROFANOV, N.G.; GAVRILOVA, K.M.; IVANOV, N.I.

Operating a 400-ton open-hearth furnace on casing-head gas. Stal' 20 no. 7:594-598 Jl '60. (MIRA 14:5)
(Open-hearth furnaces—Equipment and supplies)

FREYDENBERG, A.S.; DIKSHTEYN, Ye.I.; TRIFONOV, A.G.; ARTAMONOV, M.P.; TVOROGOV, A.R.; SHAMHLIN, V.I.; TARASOV, A.F.

Repair of tapping holes on open-hearth furnaces. Metallurg 9 no.7:20-22 Jl '64. (MIRA 17:8)

1. Magnitogorskiy metallurgicheskiy kombinat.



ARTAMONOV, N.

Airplanes fly to Communist construction projects. Kryl. rod. 2 no.6:3-4 Je '51. (MLRA 8:8)
(Aeronautics, Commercial--Freight)

ARTAMONOV, N.

Conveyer belt for coal haulage at an ascending angle. Mast. ugl. 3 no.12:20 D '54. (MLRA 8:6)

1. Pomoshchnik glavnogo mekhanika shakhty no. 4 combinata Vorkutugol'.
(Vorkuta--Coal-handling machinery)

KOSAT, I.; ARTAMONOV, N.

Initial results of the new salary system for automobile drivers.
Sots.trud 4 no.11:85-90 N '59. (MIRA 13:4)
(Wages)

ARTAMONOV, N.

Results of the new wage system for drivers. Avt.transp. 38 no.3:34-35 Mr '60. (MIRA 13:6)

1. Nachal'nik truda i zarabotnoy platy Ministerstva avtomobil'nogo transporta i shossynykh dorog Uzbekskoy SSR.
(Uzbekistan—Wages and labor productivity)

ZAKHARKIN, V.; KLYUZHEV, A.; ARTAMONOV, N.

One brigade operates on two faces. Sov.shakht. 10 no.9:18-19 S '61. (MIRA 14:8)

1. Zamestitel'glavnogo inzhenera shakhty No.17 kombinata Vorkutaugol' (for Zakharkin). 2. Nachal'nik uchastka No.1 shakhty No.17 kombinata Vorkutaugol' (for Klyuzhev). 3. Pechorskiy nauchno-issledovatel'skiy ugol'nyy institut (for Artamonov).

(Pechora Basin--Coal mines and mining)

ACCESSION NR: AP4020103 S/0125/64/000/003/0044/0049

AUTHOR: Nazarenko, O. K. (Candidate of technical sciences); Povod, A. G. (Engineer); Shnyakin, N. S. (Engineer, Moscow); Artamonov, N. N. (Engineer, Moscow); Panov, Yu. P. (Engineer, Moscow); Kedrman, A. B. (Engineer, Moscow)

TITLE: Equipment and techniques of electron-beam welding of large pieces

SOURCE: Avtomaticheskaya svarka, no. 3, 1964, 44-49

TOPIC TAGS: electron beam welding, welding, electron beam welding equipment, electron beam welding method, U86, electron beam welder, dagger shaped fusion

ABSTRACT: An experimental outfit for electron-beam (circular) welding of large-size pieces is described which can be mounted on a "telescopic" carriage with a headstock and tailstock and introduced into a cylindrical (4-m length, 2-m diameter) vacuum chamber; 20-mm-thick stainless steel was used for building

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ACCESSION NR: AP4020103

the chamber. A d-c motor mounted on the carriage ensures an adjustable welding rate within 5-100 m/hr. A VN-6 fore-vacuum pump, an N-20T oil-vapor fine-vacuum pump, and a BN-3 oil-vapor booster pump, with a combined output of 10,000 lit/sec, exhaust the chamber down to 10^{-4}-10^{-5} torr. Three electron guns are used with these parameters: accelerating voltage, 10-25 kv; test voltage, 50 kv; beam current, 0-500 ma; specific energy in the focal beam spot with optimum lens distance, 5-10 kw/mm^2. Some details of welding procedures are given. "A. M. Svyatoshiy was the leading designer. Engineers A. A. Mikhaylovskiy, V. I. Khoroshilov, A. L. Loginov, and V. F. Illarionov took part in designing the outfit. V. M. Shiyan was the leading designer of the electron gun." Orig. art. has: 5 figures and 1 table.

ASSOCIATION: Institut elektrosvarki im. Ye. O. Patona AN UkrSSR (Institute of Electric Welding, AN UkrSSR)

SUBMITTED: 21Dec63 DATE ACQ: 31Mar64 ENCL: 00

SUB CODE: ML NO REF SOV: 000 OTHER: 000

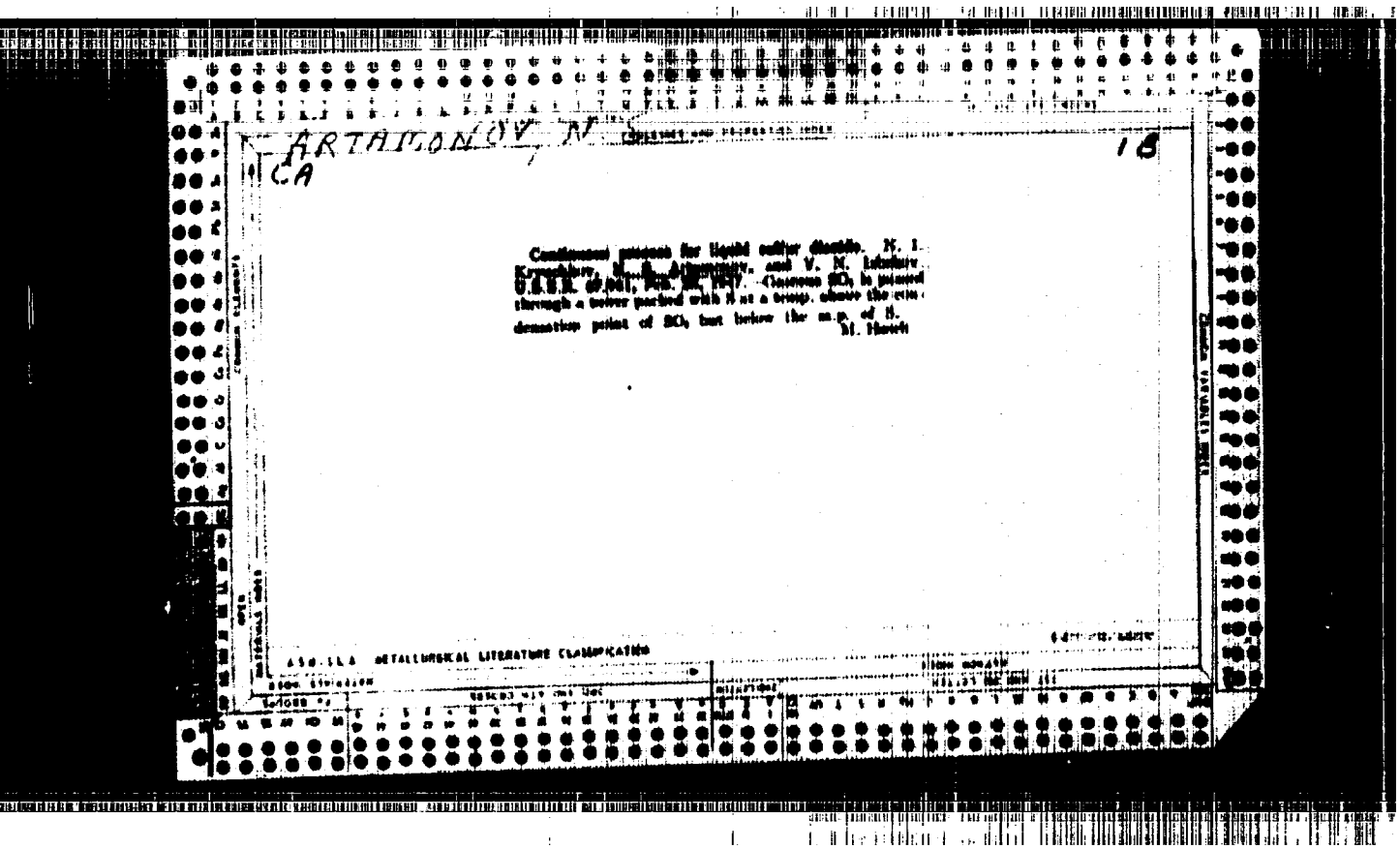
Card 2/2

ARTAMONOV, N.

PROCESSES AND PROPERTIES INDEX

Apparatus for the laboratory investigation of catalysts for the production of sulfuric acid by the contact process. N. S. Artamonov. *Zavodskaya Lab.* 1932, No. 5, [illegible]; *Neues* [illegible] 1934, II, [illegible].—An app. is described for the detn. of the percentage of SO_2 converted into SO_3 under various exptl. conditions. W. A. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



ARTAMONOV, O.F., inzh.; KAZAKEVICH, V.Ye., inzh.; LINKOV, Ya.L., inzh.; SUKHAREVA, R.A., red.; KAMYSHNIKOVA, A.A., tekhn.red.

[Collection of Russian and foreign patents; semiconductors and their applications] Sbornik otechestvennykh i zarubezhnykh izobretenii; poluprovodniki i ikh primenenie. Moskva, 1963. 77 p. (MIRA 16:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut patentnoy informatsii i tekhniko-ekonomicheskikh issledovaniy.
(Semiconductors—Patents) (Transistors—Patents)

ARTAMONOV, O. M.

S/181/60/002/04/34/034
B002/B063

24.2610

AUTHORS: Artamonov, O. M., Strakhov, L. P.

TITLE: The Appearance of Electromotive Force in Lead Sulfide Layers Due to Irradiation With Slow Electrons

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 4, pp. 775-776

TEXT: Photo-electromotive forces in polycrystalline lead sulfide layers produced by vacuum vaporization on glass have been observed repeatedly (Refs. 1-3). This news in brief gives a report on electromotive forces arising by irradiation of such layers with slow electrons (3 - 300 ev). Value and sign of this emf depend on the energy and the angle of incidence of the electrons. At energies of over 150 ev the angle of incidence for which the sign changes approximately corresponds to the angle of incidence of inversion in visible light. The value of the emf usually amounts to only some hundredths of volts, but much more for certain critical angles: An electron beam of ~ 10^{-8} a and an energy of ~100 ev produced an emf

Card 1/2

AID Nr. 957-11 2 May

EFFECT OF ION BOMBARDMENT ON THE ELECTRIC AND PHOTOELECTRIC PROPERTIES OF LEAD SULFIDE (USSR)

Artamonov, O. M., R. Ya. Berlaga, and M. G. Vinogradov. Fizika tverdogo tela, v. 5, no. 3, Mar 1963, 959-961. S/181/63/005/003/044/046

Variations in the conductivity, photoconductivity, and thermal emf of surface PbS layers have been measured during ion bombardment. Ion-bombardment energy was of the order of 100 to 400 ev, and the ion current was 10^{-6} to 10^{-8} amp. Layer conductivity was measured with a high-range ohmmeter. Photoconductivity was measured at modulated illumination with the use of a tuned amplifier. The dimensions of the layers were 0.5 x 1.0 cm. Measurements of a layer ~0.6 μ thick during argon ion bombardment showed by thermal-emf sign that the layers had hole conductivity. With the passage of the layer-resistance--bombardment-time curve through the first maximum the sign changed and the layers acquired electron conductivity. In the falling sector of the curve

Card 1/2

AID Nr. 957-11 2 May

EFFECT OF ION [Cont'd] S/181/63/005/003/044/046

resistance showed a hyperbolic dependence on time. Following bombardment for ~ 10 min, the resistance decreased and remained unchanged during an additional 10 hours of bombardment. With the removal of the ion beam the resistance increased. The reversibility of the processes causing variations in layer conductivity were found to depend on ion-bombardment time: during short exposures the process is to a large degree reversible, whereas after a long bombardment the original properties could be restored only following annealing in the open air. With the application of the ion beam, photoconductivity sharply decreases and after a long exposure disappears completely; it can be restored only after repeated heating in the open air. Bombardment by ions of various gases (hydrogen, oxygen, argon) made no qualitative difference. [DW]

Card 2/2

L 11385-63 EDS

S/120/63/000/001/031/041

AUTHOR: Artamonov, O. M., and Berlage, R. Ya.

TITLE: A dynamic capacitor for investigating variations in surface potentials

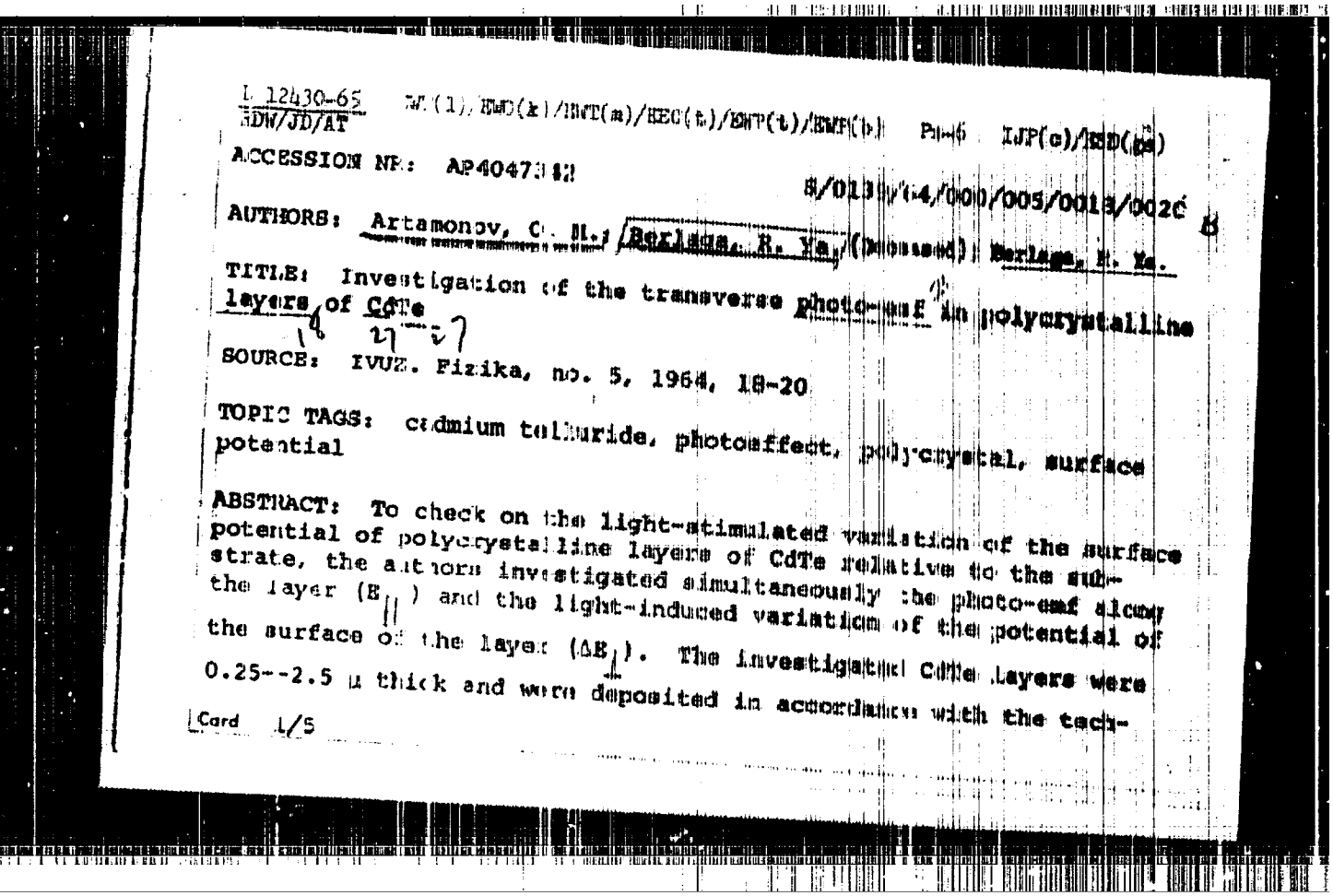
PERIODICAL: Pribory i tekhnika eksperimenta, March-April 1963, v. 8, no. 2, 151-152

TEXT: The article describes the design of a dynamic capacitor for investigating variations in the surface potentials of semiconductors. The instrument is designed to permit measurement of both ordinary contact potentials and potential variations due to illumination. While the measurement accuracy is to within 50 mv, the time constant of the measurement circuit is rather large, so that the circuit is useful primarily for measurements of surface potentials that vary slowly. There are two figures.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: May 26, 1962

Card 1/1



L 12430-65 EWT(1)/EWD(k)/EWT(m)/EEC(t)/EWP(t)/EWP(b) Pn-6 IJP(c)/EWD(ps)
EDW/JD/AT

ACCESSION NR: AP4047342 S/0139/64/000/005/0013/0020

AUTHORS: Artamonov, C. M.; Berlage, R. Ya. (Deceased); Berlage, R. Ya.

TITLE: Investigation of the transverse photo-emf in polycrystalline layers of CdTe

SOURCE: IVUZ. Fizika, no. 5, 1964, 18-20

TOPIC TAGS: cadmium telluride, photoeffect, polycrystal, surface potential

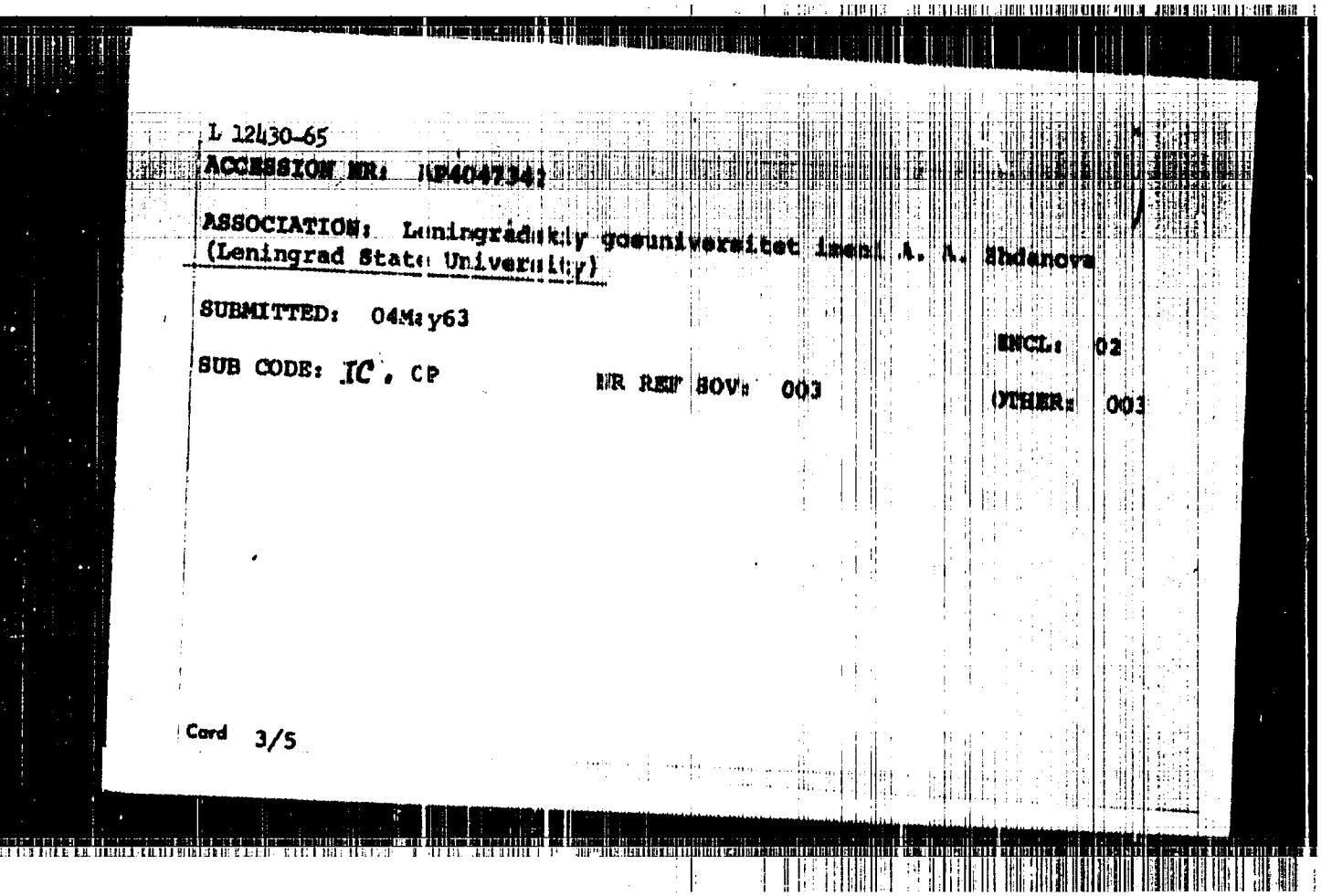
ABSTRACT: To check on the light-stimulated variation of the surface potential of polycrystalline layers of CdTe relative to the substrate, the authors investigated simultaneously the photo-emf along the layer ($E_{\parallel}$) and the light-induced variation of the potential of the surface of the layer ($\Delta E_{\perp}$). The investigated CdTe layers were 0.25--2.5 μ thick and were deposited in accordance with the tech-

Card 1/5

L 12430-65
ACCESSION NR: AP4047343

nology described by V. A. Lyubin and G. A. Fedorova (DAN SSSR v. 135, No. 4, 833, 1960) on a 75 x 70 mm glass substrate precoated with a semitransparent layer of gold. $\Delta E_{\parallel}$ was measured by the dynamic capacitor and by the capacitor methods, the light being modulated in the latter case at 200 cps. $E_{\parallel}$ was measured by a potentiometer method, using a dynamic capacitor with a tuned amplifier as a null indicator. Typical spectral curves of the transverse effect are shown in Figs. 1 and 2 of the enclosure. The results show that the longitudinal and transverse effects have much in common in their spectral characteristics, time delay, and dependence on the illumination. However, the available experimental facts cannot be explained by simply assuming that $\Delta E_{\perp}$ and $E_{\parallel}$ are projections of the same electric vector, and not all the processes which lead to a change in the surface potential make a noticeable contribution to the longitudinal photoeffect. Orig. art. has: 2 figures.

Card 2/5



L 12430-65

ACCESSION NR: AP4047342

ASSOCIATION: Leningradskiy gosuniversitet imeni A. A. Zhdanova (Leningrad State University)

SUBMITTED: 04May63

ENCL: 02

SUB CODE: IC, CP

NR REF SOV: 003

OTHER: 003

Card 3/5

L 22[illegible]-65

ACCESSION NR: AP4007142

ENCLOSURE: 01

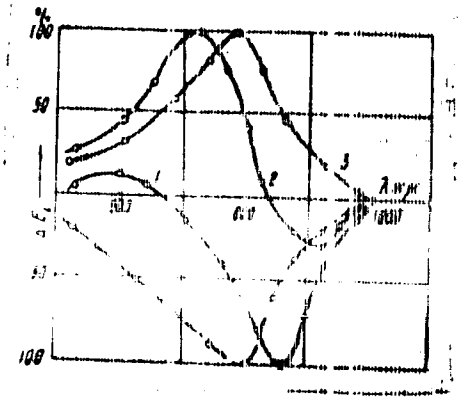


Fig. 1. Typical spectral curves of the transverse photoemf [illegible] to their maximum in per cent). Curves 1, 2, and 3 pertain to thicknesses of 1.24, 1.1, and 2.7 μ 4 - typical spectrum for the same layers, but illuminated from the opposite side.

Card 4/5

L 12430-65
ACCESSION NR: AP4041342

ENCLOSURE: 02

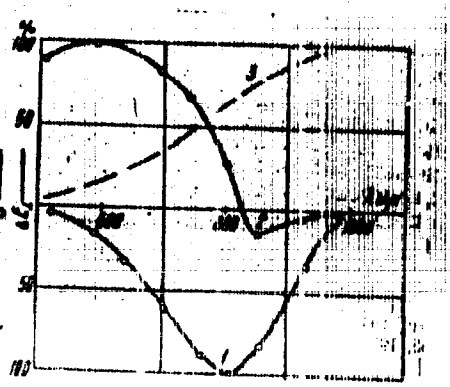


Fig. 2. Typical spectral curves of the transverse photo-emf (normalized to their maximum in per cent). 1--data obtained with dynamic capacitor, 2 -- obtained by the capacitor method, 3 -- spectral characteristic of illuminator source.

Card 5/5

ACC NR: AP7002722 SOURCE CODE: UR/0237/66/000/012/0017/0020

AUTHOR: Artamonov, O. M.; Gerasimova, N. B.; Komolov, S. A.

ORG: none

TITLE: Experimental study of the operation of a mirror electron optical system

SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 12, 1966, 17-20

TOPIC TAGS: electron optics, electron mirror, mirror electron optics, surface potential distribution, retarding field

ABSTRACT: A description is given of a mirror electron optical system which makes it possible to obtain an image of the surface distribution of the potential. An experimental investigation was made of the dependence of the arising contrast on the system's parameters in the case of a periodic distribution of the potential on the surface of the object. The results showed that the contrast reaches a maximum value at a specific magnitude of intensity in the system's retarding field. The authors express their appreciation to Academician A. A. Lebedev for his constant interest to the study. Orig. art. has: 5 figs and 5 equations. [Translation of abstract]

SUB CODE: 20/SUBM DATE: 22May66/ORIG REF: 003/ [SP]
OTH REF: 007/ UDC: 621.384

Card 1/1

PHASE I BOOK EXPLOITATION 928

Artamonov, O. Ya.

Dopusky, posadky i tekhnichni vymiry (Tolerance, Fits, and Engineering Measurements) Kiyev, Derzhtekhvydav USSR, 1958. 405 p. 1,000 copies printed.

Ed.: Amelin, O.; Tech. Ed.: Patsalyuk, P.

PURPOSE: This book is intended for students of technical schools and may also be useful to engineers dealing with fits, tolerances and engineering measurements.

COVERAGE: The book deals with basic aspects of fits, tolerances, and methods of engineering precision measurements used in machine building. Standard fits, tolerances and allowances for various types of connections and precesion instruments used for checking the accuracy of gear teeth, screw threads and surface

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quality are described. No personalities are mentioned. There are 12 Soviet references.

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Tolerance, Fits, and Engineering (Cont.) 928

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AVAILABLE: Library of Congress

Card 10/10

GO/jmr
12-15-58

B/021/60/000/001/007/013
A158/A029

AUTHORS: Artamonov, O.Ya.; Fedorchenko, I.M., Corresponding Member of the AS UkrSSR

TITLE: Effect of the Sintering Temperature on the Form of the Pores in Antifriction Metalloceramic Materials

PERIODICAL: Dopovidi Akademiyi nauk Ukrayins'koyi Radyans'koyi Sotsialistychnoyi Respubliky, 1960, No. 1, pp. 44 - 47

TEXT: The authors report the results of their study of the effects of the sintering temperature of antifriction metalloceramic materials on the change in microstructure, the form of the pores and the permeability. The study was conducted on over 2,000 parts, which included bearing bushes (height 20 - 57 mm; outer diameter 16 - 49 mm) and cylindrical samples (15 mm high, 10 mm in diameter). The bearing bushes (10, 15, 20, 25, 30 and 35% of porosity) and cylindrical samples (10, 15, 20, 25 and 30% of porosity) were made of pressed iron powder prepared by the Instytut metalokeramiky i spetsial'nykh splaviv AN UkrSSR (Institute of Metalloceramics and Special Alloys of the AS UkrSSR). The former contained a 3% admixture of graphite, the latter were made only from the above-mentioned iron

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Effect of the Sintering Temperature on the Form of the Pores in Antifriction Metalloceramic Materials

powder. One part of bushes and samples were sintered at 910°C, another at 1,050° C under identical conditions (hydrogen medium; time of sintering 3 h). Tests for gas permeability were conducted by means of pressing carbon dioxide through the bushes and samples at an initial pressure of 2 atm. Examinations of microstructures have shown the following facts: Parts sintered at 910°C had a ferrite structure and spherical pores distributed in groups separated from one another (Fig. 1). Parts sintered at 1,050°C had a perlite structure, irregularly-shaped pores, often interconnected with one another (Fig. 2). The great effect of the temperature of sintering on the shape of pores is explained by a difference in the crystalline structure of iron at sintering temperatures higher and lower than the critical point, and by different mobility of atoms, which is much greater in the α-phase at 910°C than in the γ-phase at 1,050°C. This greater mobility of atoms in the α-phase at 910°C produces more spherical pores, increases the area of contact and results in a greater shrinkage (Table 1). Even a small change in the temperature of sintering can result in a radical change in the shaping of pores, which affects the gas permeability and oil absorption qualities of bear-

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Effect of the Sintering Temperature on the Form of the Pores in Antifriction Metalloceramic Materials

ings, as shown in Table 2. It is evident that bearings sintered at 1,050°C have a minimum of separated, closed pores, a greater oil absorption quality and, ultimately, better antifriction characteristics. There are 2 photos, 2 tables, 1 graph and 2 Soviet references.

ASSOCIATION: Instytut metalokeramiky ta spetssplaviv AN UkrSSR (Institute of Metalloceramics and Special Alloys of the AS UkrSSR)

SUBMITTED: August 31, 1959

Card 3/3

ARTAMONOV, O.M.; BERLAGA, R.Ya.; BYKOVA, T.T.

Changes in the surface potential of lead sulfide films due to illumination. Vest. LGU 18 no.4:41-46 '63. (MIRA 16:3)
(Lead sulfide) (Photoelectricity)

ARTAMONOV, P.

Protecting the work and health of workers. Sots.trud no.10:124-128 O '57. (MIRA 10:11)

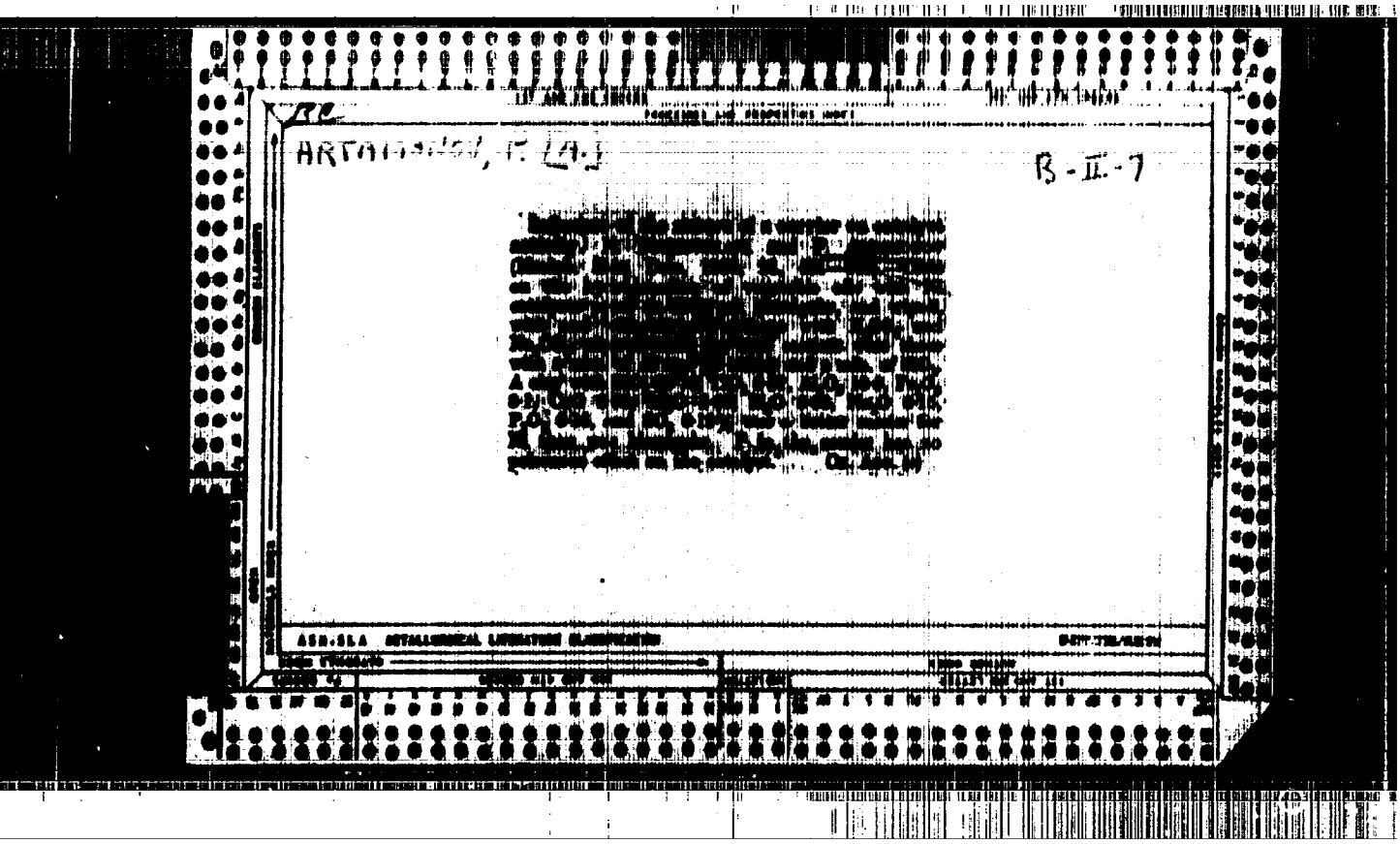
1. Predsedatel' komissii okhrany truda savkoma profsoyuza Gor'kovskogo avtozavoda.

(Automobile industry--Safety measures)

ARTAMONOV, P. (Gor'kiy); MAZINA, M., ekonomist (Gor'kiy)

This is the group wage system, not wage equalization. Sov. profsoiuzy 20 no.4:20-21 F '64. (MIRA 17:3)

1. Predsedatel' komissii zarabotnoy platy i normirovaniya truda zavodskogo komiteta Gor'kovskogo avtozavoda (for Artamonov).

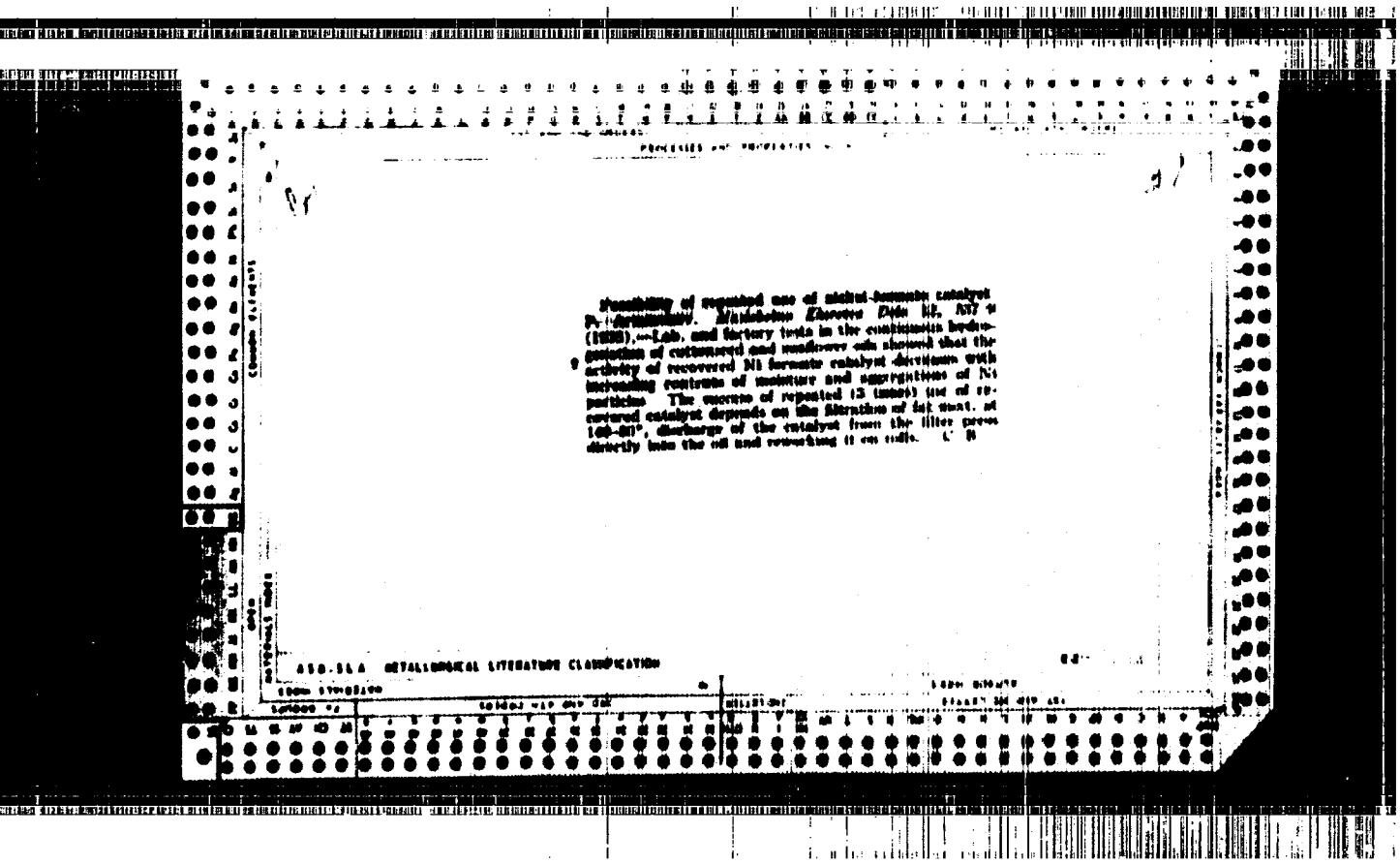


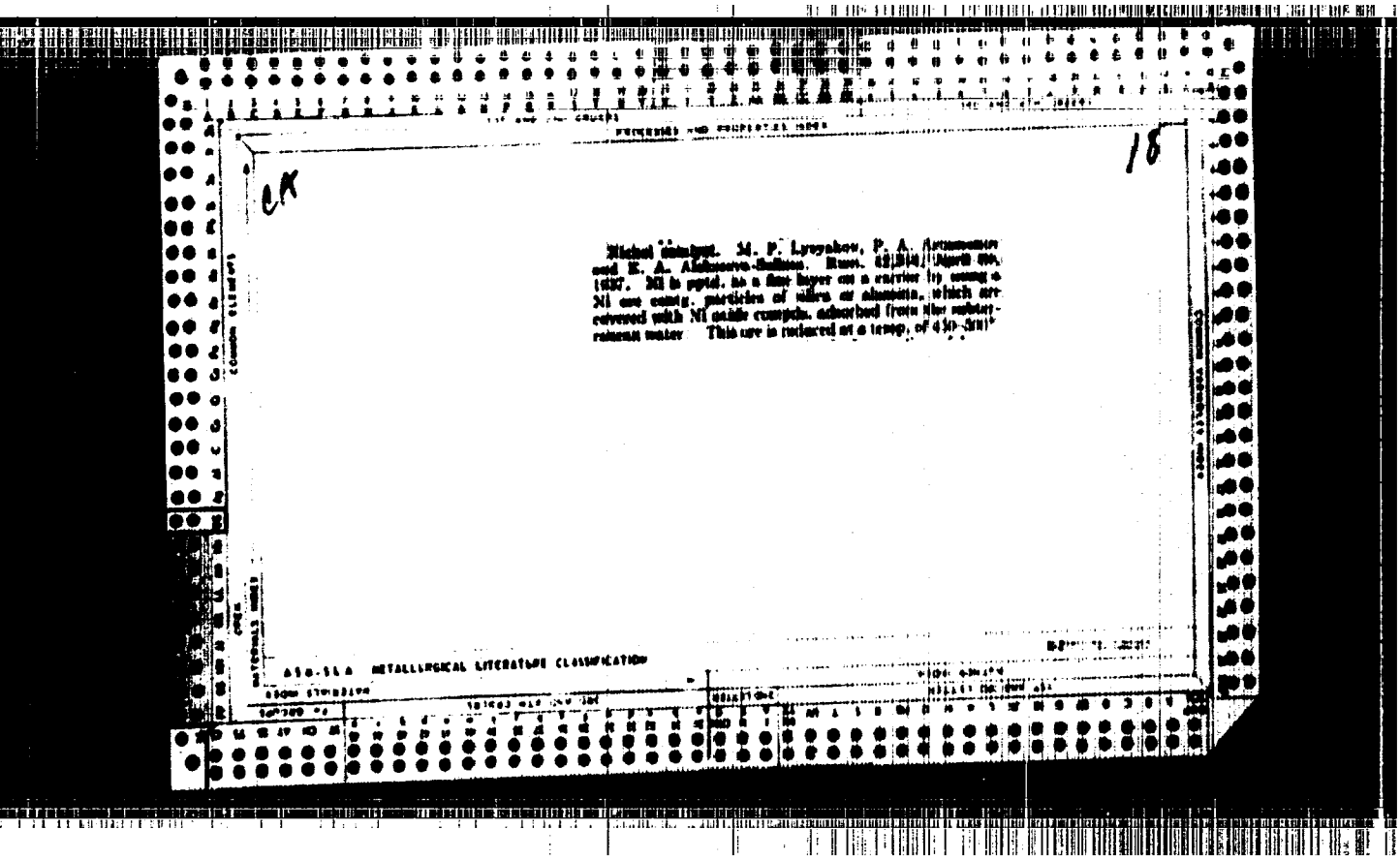
PROCESSES AND PROPERTIES INDEX

87

Influence of the nature of a carrier on catalyst activity. E. [illegible] and F. A[illegible]. *Masloboino Zhirovoe Delo* 11, [illegible]-61(19[illegible]).—Expts. in comparative hydrogenation of vegetable oils in the presence of Ni catalyst pptd. on silica gel and on kieselguhr and tripoli of various origins, with and without preliminary treatment with H_2SO_4 and Na_2CO_3, disclosed that contrary to the general theory the best carriers are those contg. a max. of Al and Fe oxides and a min. of SiO_2. Further evidence was furnished by the use of new carriers, such as clays rich in Al_2O_3 and Fe_2O_3. Thus by the use of a clay of the compn. SiO_2 59.76, TiO_2 0.81, Al_2O_3 18.5, Fe_2O_3 8.1, CaO 0.70, MgO 2.08, K_2O 4.08, Na_2O 0.18, P_2O_5 0.10 and SO_3 0.19%, a fat [illegible], m. 61°, was obtained, i. e., a considerably greater activity of Ni than when pptd. on kieselguhr. The practical interpretation of the results is that the catalytic activity of Ni decreases with the greater content of SiO_2, sol. in Na_2CO_3, in the carrier and increases with its increased soly. in H_2SO_4. The presence of F in a carrier has no poisonous effect on the catalyst. C. B.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION





PROCESSES AND PROPERTIES INDEX

CA

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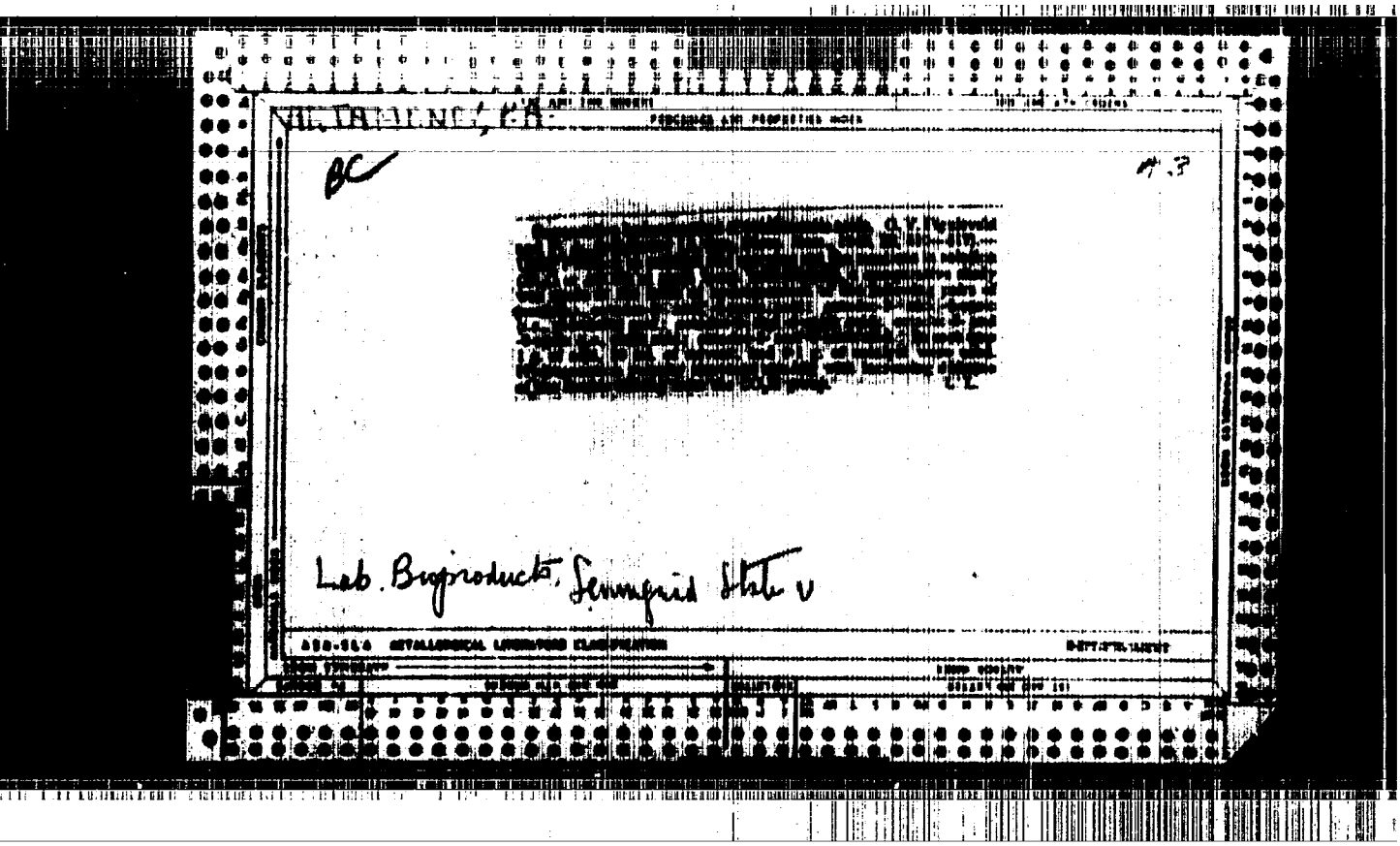
Repeated utilization of used catalyst. E. Ya. Heinberg and P. A. Antamonova. *Masla i Produkty Hidrogenizatsii Zhirov, Sbornik Nauch.-Issledovatel. Inst. Zhirov* (Leningrad) 1950, 55-61; *Khim. Referat. Zhur.* 1950, No. 4, 100.—The sepn. of $Ni(HCO_3)_2$ catalyst reduced in the oil from hydrogenated fat is difficult, owing to the fact that metallic Ni in a dispersed state fills the filtering cloth and contaminates the fat by passing partially through the filter. Filtering through a filter press filled with kieselguhr or with powdered $NiCO_3$ removes Ni completely. The method makes filtering easy and improves the color of the fat. For repeated use of the filtered catalyst, filter the fat mass at a temp. not higher than 120°, separate the part of the catalyst contaminated with H_2S or impurities from the hydrogenation of low-grade fats; prevent the contamination of the used catalyst by foreign impurities; repeat the grinding of the catalyst to increase its active surface. W. R. Henn

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



1. ARTAMON V, P. A.: LOSEVA, T. K., Eng. SOKOLIN, O. O.

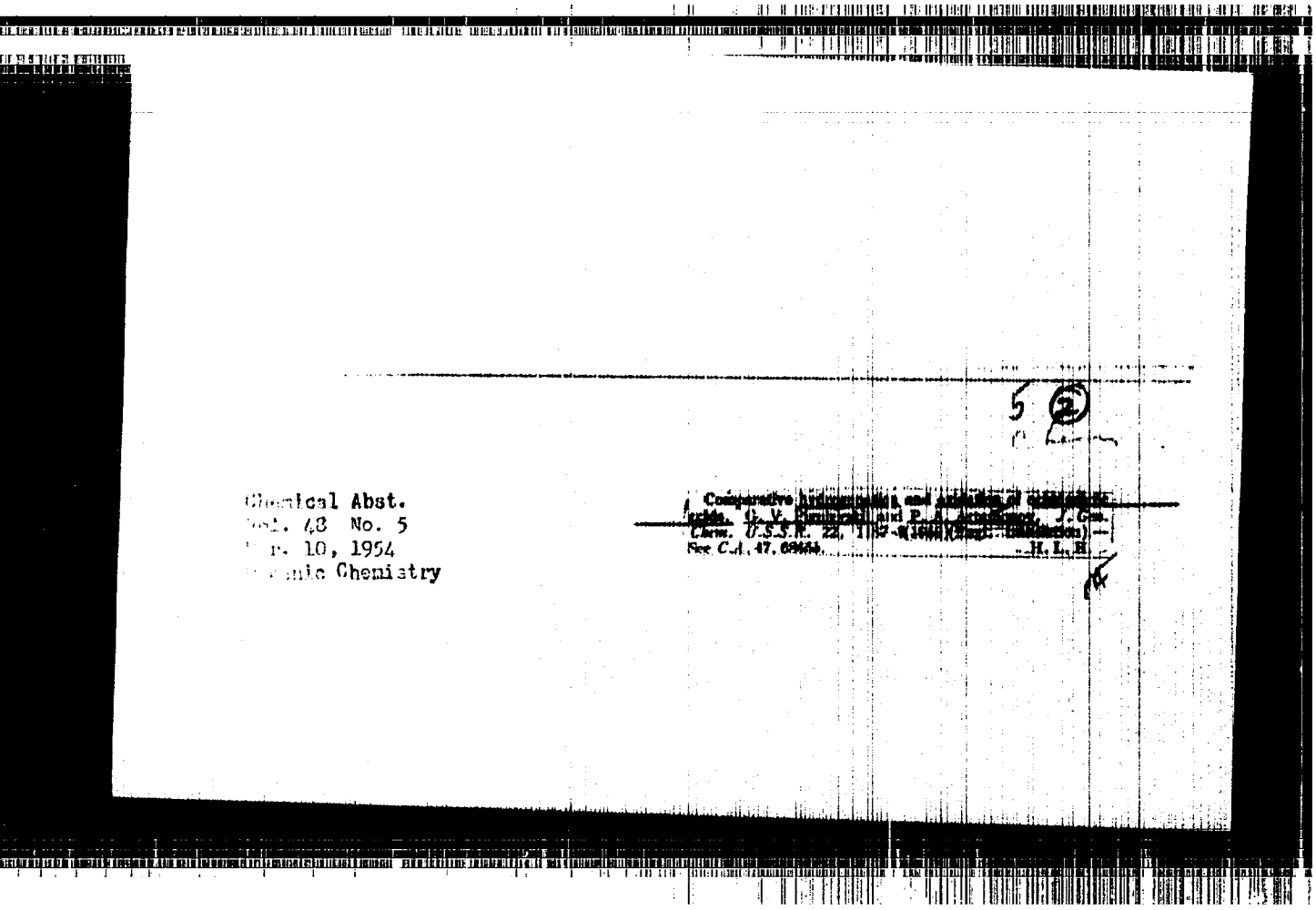
2. USSR (600)

4. Water Gas

7. Purifying water gas with a solution of mono-ethylamine. Khim. nauk. prom. 17 no. 9, 1952.

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

Comparative hydrogenation and oxidation of octadecenoic acids.
Zhur. Obshchey Khim. 22,1140-3 '52. (MLRA 5:8)
(CA 47 no.14:6865 '53)



Chemical Abst.
Vol. 48 No. 5
Mar. 10, 1954
Inorganic Chemistry

5 (2)

Comparative [illegible] and acidity of [illegible]
acids. G. V. Bumpus and P. A. [illegible]. J. Gen.
Chem. U.S.S.R. 22, 1187-9(1952)(Engl. translation).
See C.A. 47, 6944h. H. L. H.

ARBUZOVA, P. A.

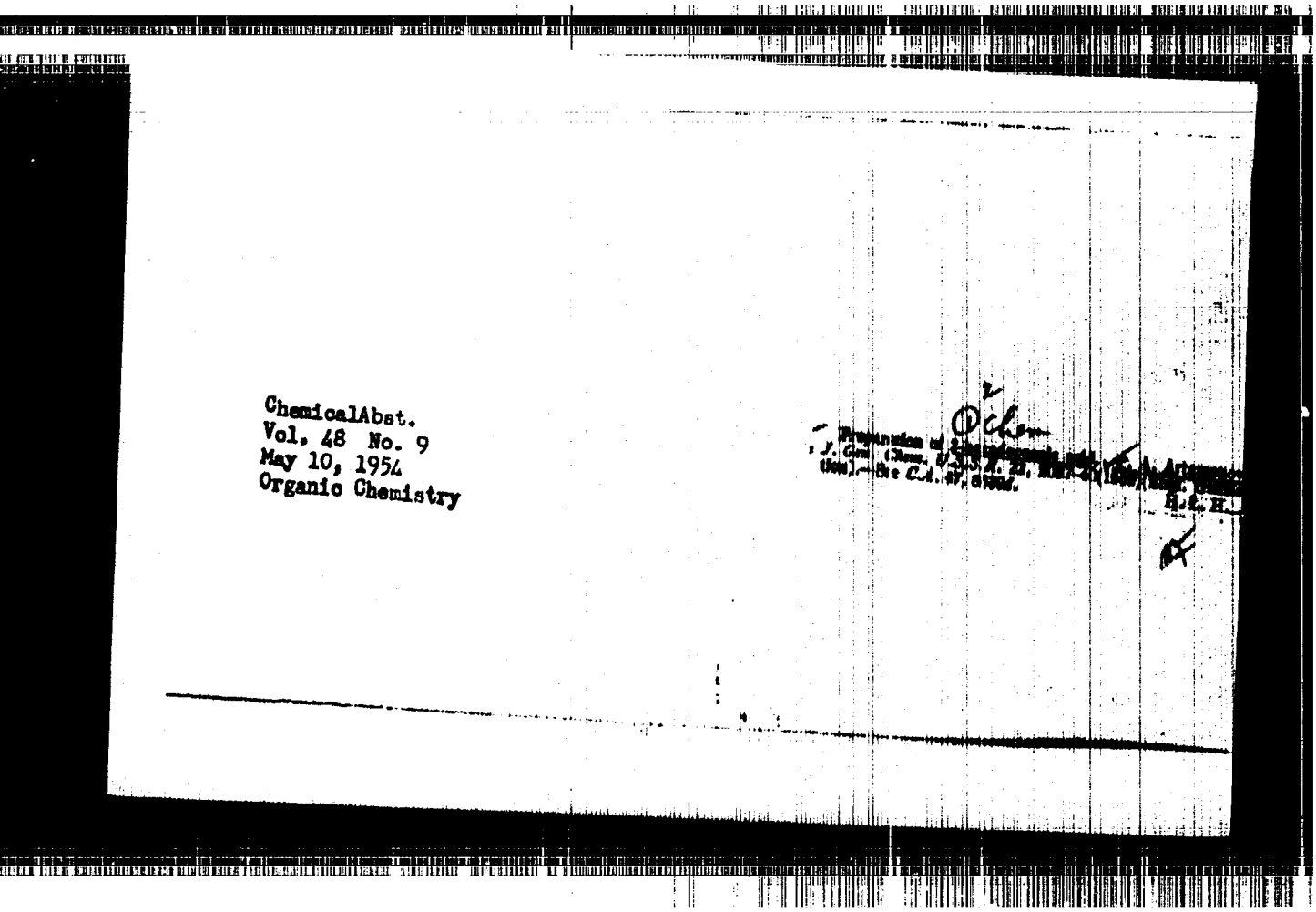
"Preparation of Δ 2, 3-hexadecenoic acid." (p. 1988)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1952, Vol. 22, No. 11

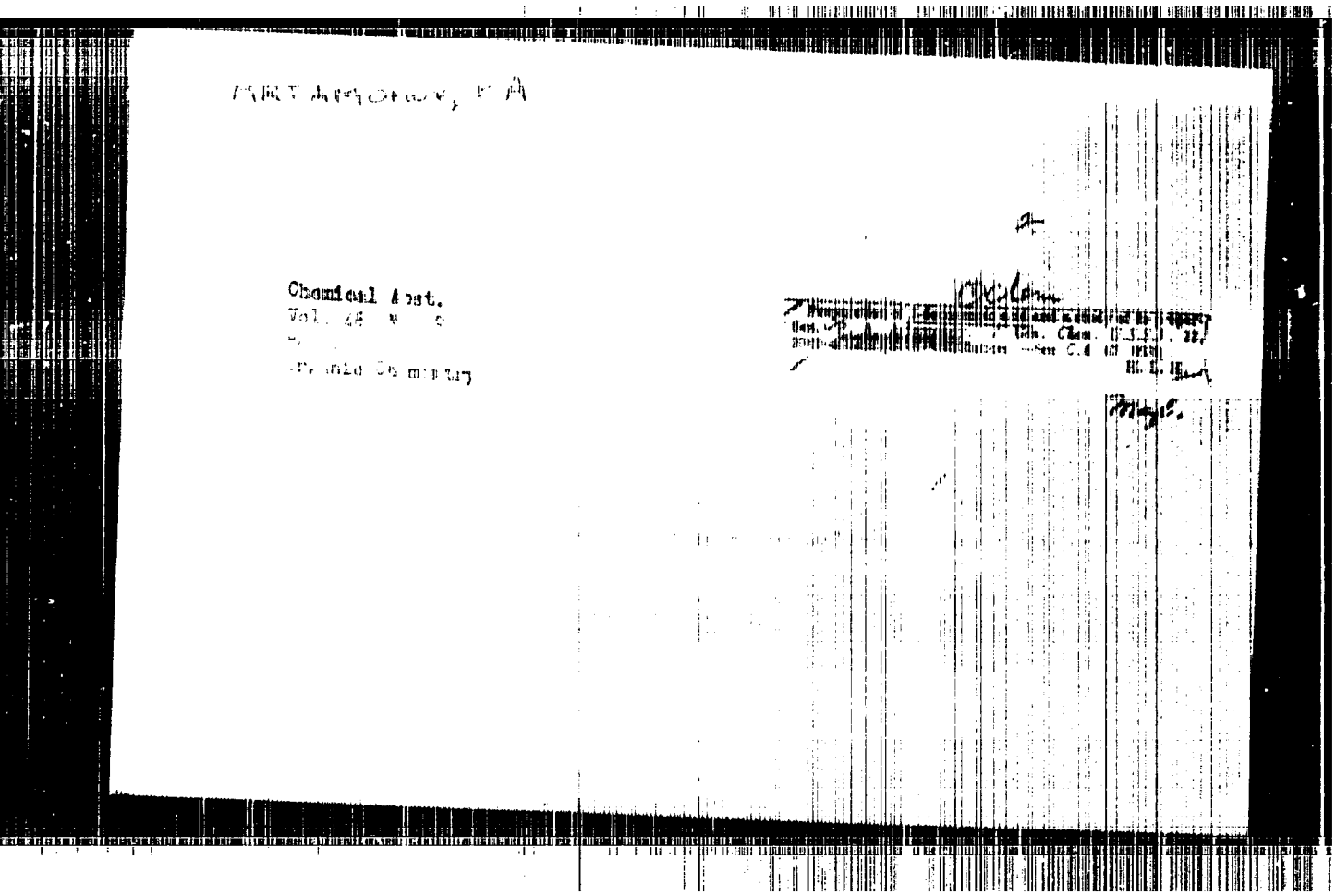
ARTAMONOV, P.A.

Preparation of 2-docosenoic acid and study of its properties. Zhur. Obshchey Khim. 22,1992-5 '52. (MLRA 5:12)
(CA 47 no.17:8639 '53)

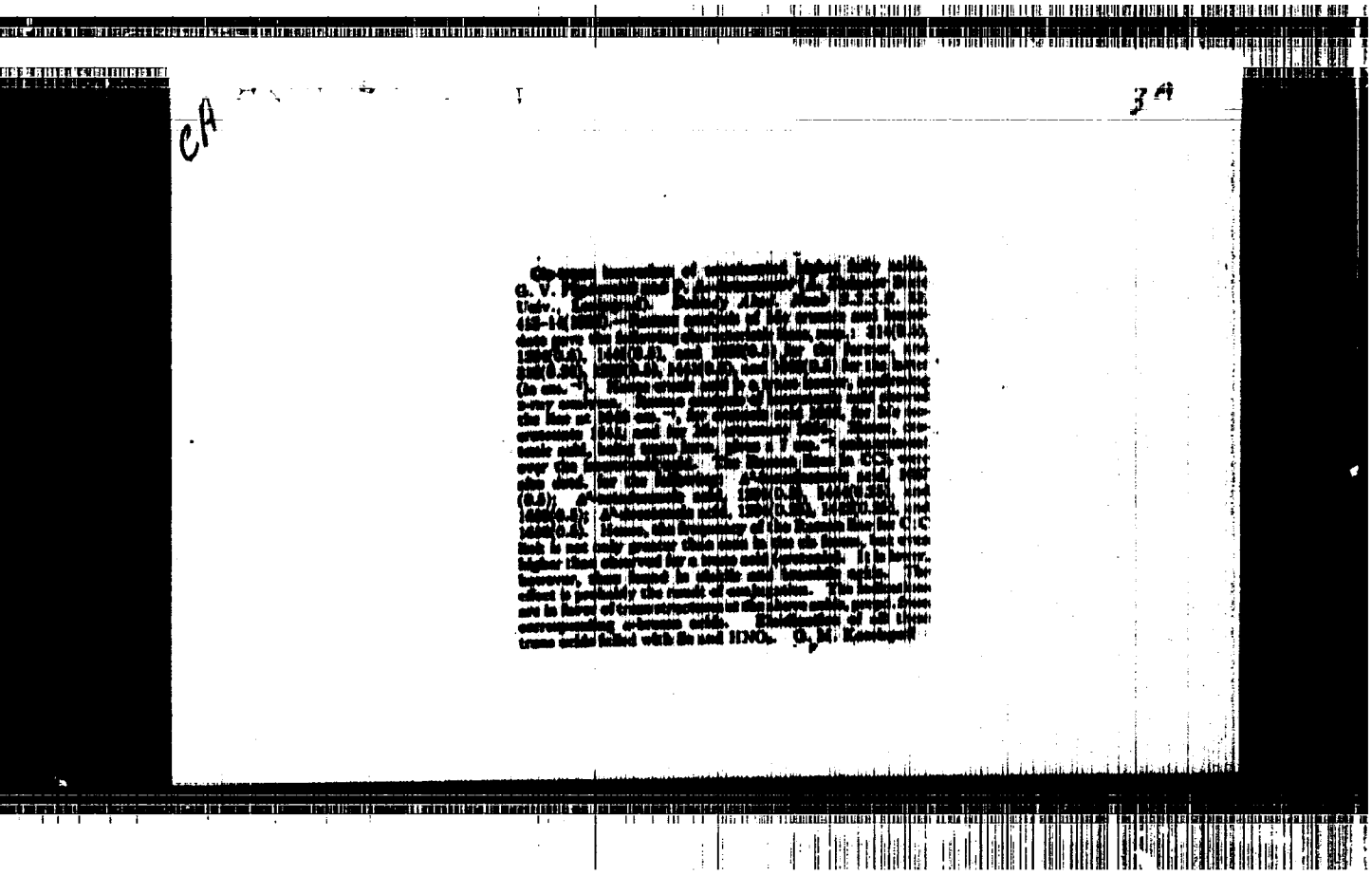
1. Lab. Gydrogenizatsii, Vsesoyuz. Nauch. Issledovatel. Inst. Zhirov.



ChemicalAbst.
Vol. 48 No. 9
May 10, 1954
Organic Chemistry



Chemical Abst.
Vol. 48 No. 9
May 10, 1954
General Chemistry



ARTAMONOV, P.A., kandidat khimicheskikh nauk; STERLIN, B.Ya., kandidat tekhnicheskikh nauk; SLASHCHEV, N.S., inzhener; RUMSH, D.I., inzhener; ZELIKSON, T.I., inzhener; SHEYNIN, L.I., inzhener; ARAPOV, L.V.

Regeneration of a used catalyst with preliminary degreasing. Masl.-zhir. prom. 18 no.6:17-19 Je '53. (MLRA 6:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (for Artamonov, Sterlin). 2. Moskovskiy gidrozavod (for Slashchev, Rumsh, Zeliksen, Sheynin, Arapov).
(CA 47 no.22:12839 '53) (Hydrogenation)

Chem Abs v[redacted]
1-25-54
Apparatus, Plant equipment, and unit operations

(4)

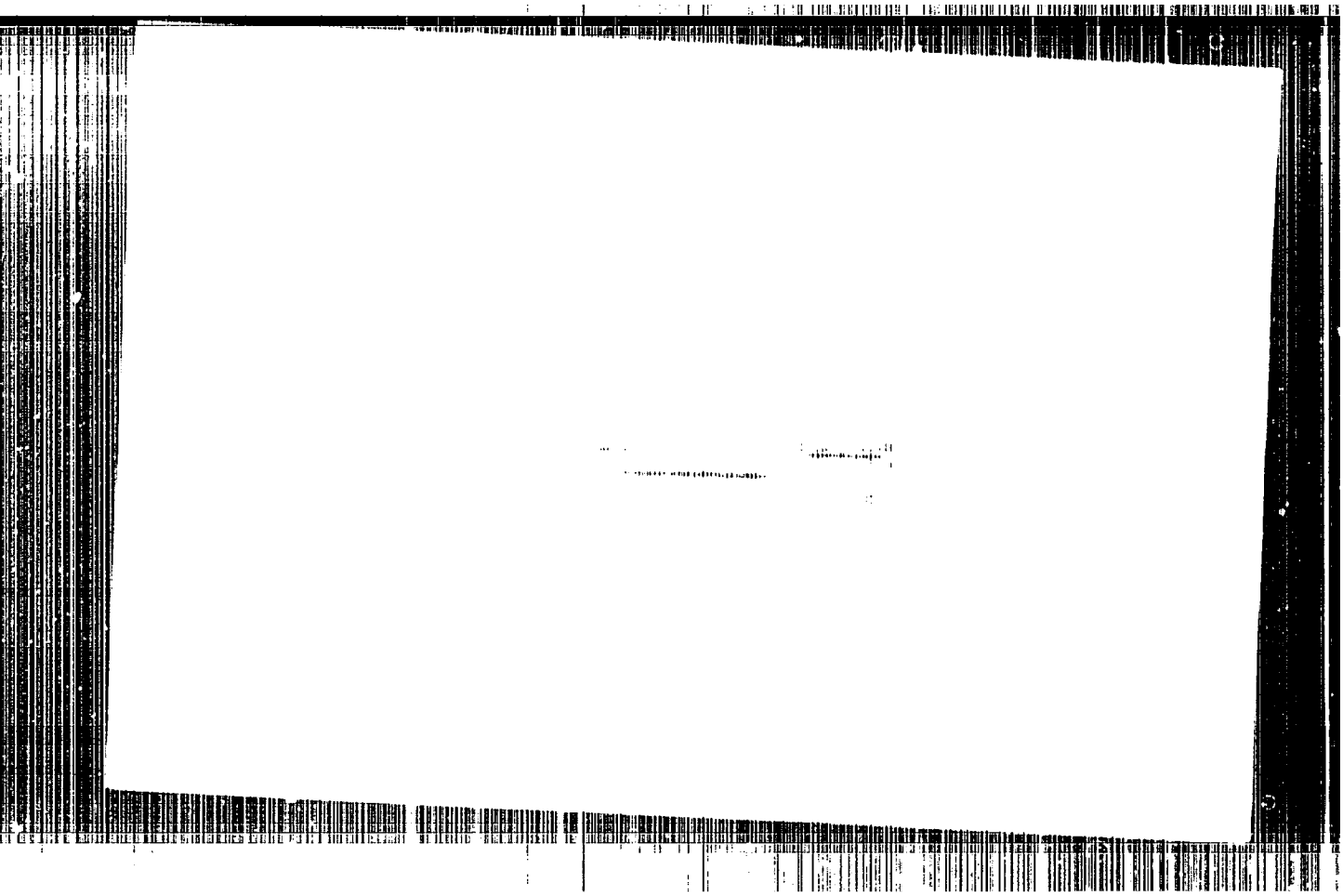
Use of continuous vacuum filters in the manufacture of a catalyst. P. A. Artamonov, N. S. Slinkin, and L. I. [redacted]. *Prom.* 18, No. 9, 5-8(1953).—$NiCO_3$(I) and $CaCO_3$(II) suspension is fed by gravity flow into a semicircular trough contg. a half-submerged drum-shaped filter. The filter is subdivided into several sections which are intermittently connected with a vacuum line by means of a slide valve, as the drum rotates. The mother liquid is drawn in through the filter cloth, and water, flowing on the outside of the drum, cleans the catalyst, which is then scraped off by knives, dried, etc. Most rapid sedimentation of I and II occurs when they are obtained from Ni and Ca sulfate sols. contg. 9-10 g. of metals per l. at 80°. Under these conditions, 70% of the mother liquid was removed after a 4-5 hr. sedimentation period. The catalyst removed from the filter contained 0.66-0.97% of Na_2SO_4. The temp. of the wash water should be from 35 to 80°. The diagrams of apparatus and data are given in 2 tables.

6-15-54

ARTAMONOV, P.A.

Comparative hydogenation of unsaturated fatty acids, C_{16}, C_{18}, and C_{22}. Zhur. Obshchey Khim. 23, 216-18 '53. (MLRA 6:3)
(CA 47 no.14:7235 '53)

1. Lab. Gidrogenizatsii, Vsesoyuz. Nauchn.-Issledovatel. Inst. Zhirov.

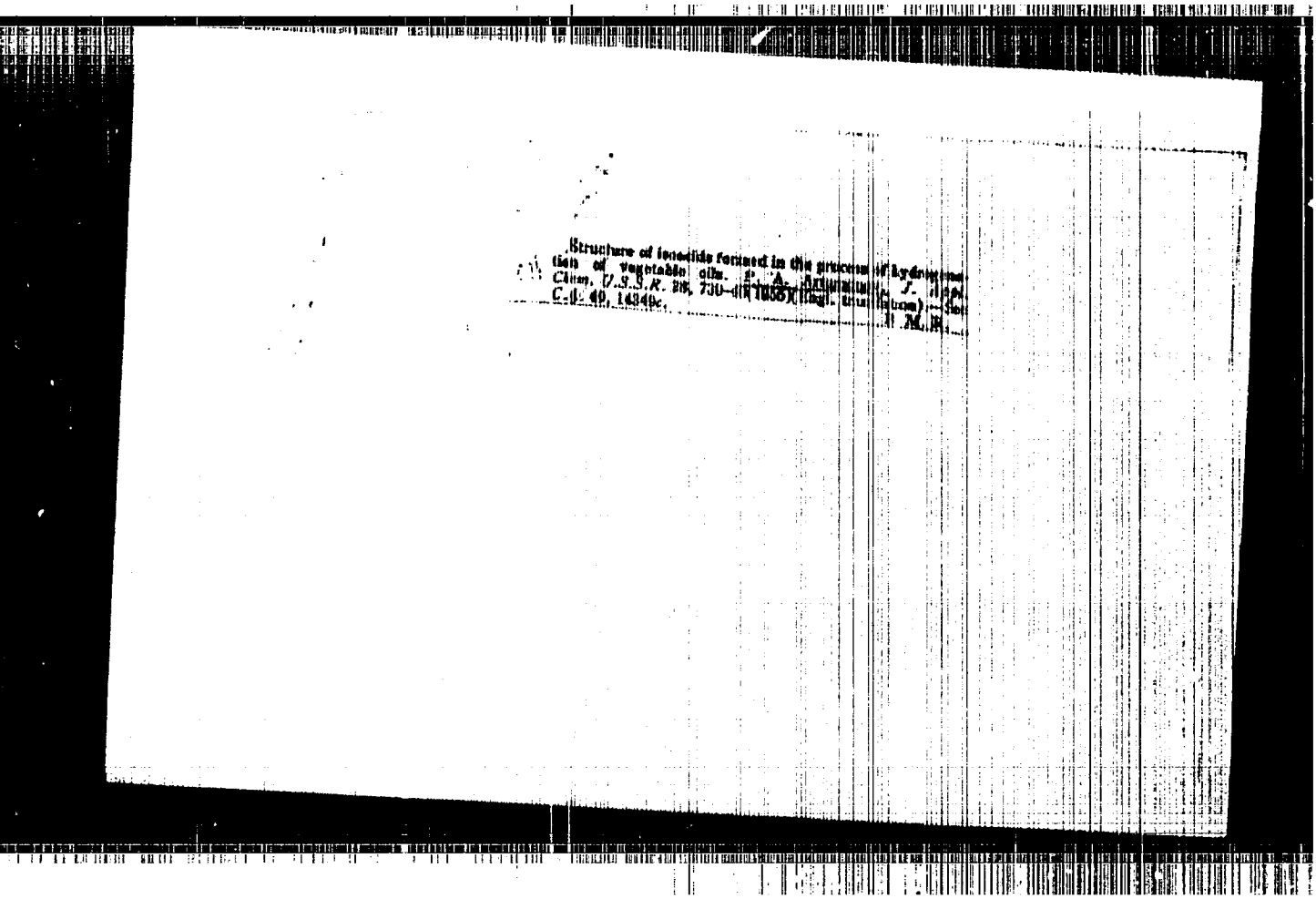


APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000102220002-2"

ARTAMONOV, P.A., kandidat khimicheskikh nauk.

Spray-drying a mixture of nickel carbonate and copper carbonate.
Masl.-zhir.prom. 19 no.3:13-16 '54. (MLRA 7:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolizney i sul'fitnospirtovoy promyshlennosti.
(Drying apparatus)



Structure of isoacids formed in the process of hydrogenation of vegetable oils. P. A. [illegible]
Zhur. Fiz. Khim., 1955, 29, 730-41 (Engl. trans.)
C.A. 49, 14340c.

Subject	: USSR/Chemistry	AID P - 3580
Card 1/1	Pub. 152 - 17/20	
Author	: Artamonov, P. A.	
Title	: Structure of isomeric acids formed during the hydrogenation of vegetable oils	
Periodical	: Zhur. prikl. khim., 28, 7, 775-777, 1955	
Abstract	: Raman spectrum was used for the determination of the structure of the acids. Isomeric acids of hydrogenated oils, namely sunflower oil, cottonseed oil, soybean oil, and rapeseed oil were studied and the data compiled in tables. Two tables, 7 references, 4 Russian (1912-1952).	
Institution	: All-Union Scientific Research Institute of Fats	
Submitted	: Jl 31, 1954	

...NOV, P. A. --"On the Investigation of Higher Fatty Unsaturated Acids of the $C_nH_{2n-2}O_2$ Type." Leningrad Order of Lenin State University imeni A. A. Zhdanov, Leningrad, 1956.
(Dissertation for the degree of Doctor of Chemical Sciences.)

...I No. 41, October 1956

ARTAMONOV, P.A.

Acetonation of higher aliphatic dioxyacids. Zhur.ob.khim. 27 no.10:2726-2728 O '57. (MIRA 11:4)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Acids, Organic)

AUTHOR: Artamonov, P. A.

TITLE: Synthesis of the Oxides of the Higher Aliphatic α,β-Unsaturated Acids and Investigation of their Properties (Polucheniye okisey vysshikh zhirnykh α,β-nepredel'nykh kislot i issledovaniye ikh svoystv)

79-28-5-55/69

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol 28, Nr 5, pp. 1355-1360 (USSR)

ABSTRACT: It was of interest to the author to obtain the oxides of unsaturated aliphatic acids with the position of their oxide cycle near the carboxyl group and to investigate their properties, as nothing has been published on them until now. In order to solve this problem they subjected the transisomers of the following unsaturated acids to oxidation with benzoylhydrogen peroxide: hexadecene-2--acid-1, octadecene-2-acid-1 and docosane-2-acid-1. The investigations showed that the free acids enter very slowly into reaction with benzoylhydrogen peroxide. For this reason the methylesters of acids were subjected

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to oxidation which lead to a quicker formation of the oxides in good yields (table 2). Thus the oxides of the hexadecene-2-acid (trans), of octadecene-2-acid-1 (trans) and of docosene-2-acid-1 (trans) were synthetized for the first time and their properties were investigated. It was found that these oxides can easily be hydrolized with the formation of dioxy acids. The following acids were obtained: 2,3-dioxyhexadecene-, 2,3-dioxyoktadecene- and 2,3-dioxydokosene acids, of which only the second one is described in references. In the hydrogenation of the oxides oxy acids form. In the cleavage of the oxide ring the hydroxyl joins that carbon atom which is most distant from the carboxyl groups. Of the 3-oxyhexadecene-, -3-oxyoktadecene- and 3-oxydokosene acids obtained the second one had been unknown before. Of the oxides of hexadecene-2-acid-1 (trans), octadecene-2-acid-1 (trans) and docosane-2-acid-1 (trans), infrared absorption spectra were taken. There are 2 figures, 5 tables, and 22 references, 8 of which are Soviet.

Synthesis of the Oxides of the Higher Aliphatic α,β -Unsaturated Acids and Investigation of their Properties

79-28-5-55/69

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov (All-Union Scientific Research Institute for Fats)

SUBMITTED: November 15, 1956

Card 3/3

ARTAMONOV, P.A., kand.khim.nauk; MAMEDOV, A.S.

Study of the chemical composition and physicochemical properties of oil obtained from the 01298 variety of cotton. Masl.-shir. prom. 25 no.2:8-9 '59. (MIRA 12:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut shirov (for Artamonov). 2. Kirovabadskiy pedagogicheskiy institut imeni Zardavi (for Mamedov).

(Cottonseed oil)

ARTAMONOV, P.A.

Interesterification of fats. Zhur.prikl.khim. 33 no.7: 1449-1465 Jl '60. (MIRA 13:7)
(Esterification) (Oils and fats)

ARTAMONOV, P.V.

Magnetic prospecting methods. Trudy VNIIR no.4:140-158 '61.
(MIRA 14:9)
(Magnetic prospecting)

ARTAMONOV, R.A., kand.khim.nauk; GLOKOVA, Ye.A.; GORYAYEVA, L.N.

Data on the interesterification of cottonseed oil. Masl.-zhir. prom. 25 no.3:22-25 '59. (MIRA 12:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Cottonseed oil) (Esterification)

GERTIN, F.L., MURLAGA, S.Ye., ARTAMONOV, S.D.

Two cases of relaxation of the diaphragm. Nov.khir.arkh. no.2:105 Mr-Ap '58 (MIRA 11:6)

1. Khirurgicheskoye otdeleniye chetvertoy Magnitogorskoy gorodskoy bol'nitsy.
(DIAPHRAGM--SURGERY)

1. POPOV, F.A., ARTAMONOV, S. P.
2. USSR (600)
4. Grasses
7. When perennial grass sod should be turned up, Trudy UNDISOZ, 6, 1951

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

AGANBEGYAN, A.G.; ARTAMONOV, T.A.; IOFFE, Ye.M.; SHNEYKIN, Yu.M.; VASIL'YEVA, L., red.; KOLOSOVA, I., red.; DANILINA, A., tekhn.red.

[The U.S.S.R. and the U.S.A.; facts and figures] SSSR - SShA; tsifry i fakty. Moskva, Gos.izd-vo polit.lit-ry, 1961. 132 p. (MIRA 14:3)

(United States--Statistics) (Russia--Statistics)

Subject : USSR/Aeronautics AID P - 3296

Card 1/1 Pub. 135 - 2/20

Authors : Shishov, L., Lt. Col. and Artamonov, V., Maj., Heroes of the Soviet Union

Title : Sturmoviks' approach to the target

Periodical : Vest. vozd. flota, 11, 10-15, N 1955

Abstract : The authors describe the tactics of the attack by assault aviation on small targets such as tanks, guns, mortars, etc. They are concerned mainly with the detection of targets and other elements of successful attack. They are not concerned with time, which was considered in articles in Nos. 2 and 7 (1955) of this journal. Diagrams.

Institution : None

Submitted : No date

ARTAMONOV, V., paladchik; ZHELONKIN, V., inzh.

A drum with pockets. Izobr.i rats. no.3:10-11 Mr '62. (MIRA 15:2)

1. Zavod "Karbolit", g. Orekhovo-Zuyevo.
(Drums (Containers))