"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A.A., kand. tekhn. nauk.

New method of cutting low-module gears. Izobr. v SSSR 3 no.3:6-8 Mr '58. (MIRA 11:3)

(Gear cutting)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A.S., kandidat tekhnicheskikh nauk; RATMIROV, VA.A., kandidat tekhnicheskikh nauk.

Autodyne a new electromechanical converter. Izobr. v SSSR 1 no.5:11-14 N '56. (MLRA 10:3)
(Electric current converters)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, Aleksandr Abramovich

Tekhnologiya mekhanicheskoy obrabotki aviatsionnykh detaley (by) A. A. Zorokhovich (i) M. A. Kolosov. Moskva, Oborongiz, 1959.
287 (2) p. illus., diagrs., tables. cm. (Bibliotechka Rabochego Aviatsionnoy Promyshlennosti)
Bibliography: p. (289).

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

1(2);25(1) PHASE I BOOK EXPLOITATION SOV/2687

Zorokhovich, Aleksandr Abramovich, and Mikhail Aleksandrovich Kolosov

Tekhnologiya mekhanicheskoy obrabotki aviatsionnykh detaley. (Machining Technology of Aircraft Components) Moscow, Oborongiz, 1959. 287 p. (Series: Bibliotechka rabochego aviatsionnoy promyshlennosti) Errata slip inserted. 10,000 copies printed.

Reviewer: V.P. Firago, Candidate of Technical Sciences, Docent; Ed.: Ya. M. Rozenblit, Engineer; Ed. of Publishing House: P. B. Morozova; Tech. Ed.: V.P. Rozhin; Managing Ed.: A. I. Sokolov, Engineer.

PURPOSE: This book is intended for skilled workers and foremen of machine shops in the aviation industry.

COVERAGE: The book contains indispensable information for the analysis and evaluation of technological processes, characteristics of equipment used, and instructions for the choice of attachments, instruments, and machining regimes. Various methods of machining of parts are explained. Soviet and, to some extent, non-Soviet experience of many years in the aviation industry is

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generalized. The development of technological processes is discussed in detail. The book contains a number of examples from the industrial practice of past years and of the present day. In chapter I. definitions of some 30 technological terms are given. No personalities are mentioned. There are 22 Soviet references.

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

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APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

AUTHOR: Zorokhovich, A. A., Candidate of Technical Sciences SOV/119-59-5-10/22

TITLE: The Cutting of Teeth of Small-module Gears by the Method of Multiple-tool Shaping (Narezaniye zub'yev malkomodul'nykh shesteren po metodu mnogolezviynogo stroganiya)

PERIODICAL: Priborostroyeniye, 1959, Nr 5, pp 18-20 (USSR)

ABSTRACT: Modern methods for the cutting of gears with small modules must be developed. For this purpose the author used the method of copying since by this method the profile of teeth can be obtained in any form with maximum accuracy. The method of copying is connected with the possibility of individual subdivision. The shaping of the tooth profile by the new method is based on the combination of a master form with a parallelogram (pantograph), and the use of a special "head" with several cutting tools. After some theoretical and experimental investigations the author chose the rectilinear progressive motion of the cutting points along the tooth to be processed. This motion can be controlled by a Nicomedes conchoid $(x - k)^2(x^2 + y^2) = b^2x^2$. The elimination of different sources of errors is pointed out in short. In case of involute-tooth gears,

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all gears with different modules can be machined with one master form. The accuracy attained by control measurements is indicated. Accuracy with respect to the profile 0.005 mm; accuracy with respect to the tooth pitch 0.008; maximum accumulation of errors in tooth pitch 0.01; radial play of the gear rim under 0.01; parallelism of teeth 0.001 mm. The method discussed here offers many advantages: 1) It ensures the production of low-module gears with high accuracy without additional working methods. 2) It ensures the production of teeth of any shape with an accuracy of 0.005 mm. 3) A smaller quantity of high-speed steel is required for the production of the tooth-cutting tool. 4) It is suitable for the introduction of high-speed processes and for an increase in efficiency of work. There are 4 figures.

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A.Ye., dotsent, kand.tekhn.nauk

Using regulated single-armature transformers for automatic voltage regulation at traction substations and for receiving excess recuperative energy. Trudy MIIT no.104:105-125 '59. (MIRA 12:9)

(Electric transformers)
(Electric railroads--Substations)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A.Ye.

SHLYAKHTO, P.N.; ZAKHARCHENKO, D.D.; ZOROKHOVICH, A.Ye., redaktor; KRYLOV, S.K., redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Rolling stock of electric railroads] Podvizhnoi sostav elektricheskikh zheleznykh dorog. Moskva, Gos. transp. zhel-dor. izd-vo. Vol.2. [Electric traction engines and auxiliary machines] Tiagovye elektrodvigateli i vspomogatel'nye mashiny. 1951. 484 p. (MLRA 10:8) [Microfilm]

(Electric railroads--Rolling stock)
(Electric locomotives)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

MARKVARDT, K.G., professor, doktor tekhnicheskikh nauk; redaktor; ZOROKHOVICH, A.Ye., kandidat tekhnicheskikh nauk, redaktor; KHITROV, P.A., tekhnicheskiy redaktor.

Problems in the electrification of railroads. Trudy MIIT no.63:3-218 '53. (MLRA 7:12)
(Railroads--Electrification)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A. Ye.

Medel', V. B. Shlikhto, P. N. Zakharchenko, D. D. Tikhmenev, B. N. Trakhtman, L. M. Zorokhovich, A. Ye. Krylov, S. K.	"Electric Railroad Rolling Stock"(textbook 3 vols)	Moscow Electromechanical Institute of Railroad Engineers imeni F. E. Dzerzhinskiy

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZORCKHOVICH, A. YE.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

Name	Title of Work	Nominated by
Zorokhovich, A. Ye.	"Rolling Stock of Electric Railroads" (textbook, 3 vol	Moscow Electromechanical Institute of Railroad Engineers imeni F. E. Dzerzhinskiy

SO: W-30604, 7 July 1954

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A.Ye., kandidat tekhnicheskikh nauk, dotsent.

Experimental investigation of the "autodyne". Trudy MIIT no.83/4 '55. (MLRA 9:6)
(Automatic control) (Electric apparatus and appliances)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, Aleksandr Yefimovich; KRYLOV, Sergey Kononovich; GUTKIN, L.V., kandidat tekhnicheskikh nauk, redaktor; VERINA, G.P., tekhnicheskiy redaktor

[Principles of electric engineering for locomotive brigades] Osnovy elektrotekhniki dlia lokomotivnykh brigad. Moskva, Gos.transp. zhel-dor. izd-vo, 1957. 453 p. (MLRA 10:2)
(Electric engineering) (Locomotives)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZAKHARCHENKO, D.D,dotsent, kandidat tekhnicheskikh nauk; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk; KALININ, V.K.,inzhener; KREST'YANOV, M.Ye.,dotsent, kandidat tekhnicheskikh nauk; LAKSHTOVSKIY, I.A.,dotsent, kandidat tekhnicheskikh nauk; MARKVARDT, K.G.,professor, doktor tekhnicheskikh nauk; MEDEL', V.B., professor, doktor tekhnicheskikh nauk; MIRONOV, K.A.,inzhener; MIKHAYLOV, N.M.,dotsent, kandidat tekhnicheskikh nauk; NAKHODKIN, M.D., dotsent, kandidat tekhnicheskikh nauk; OZEMBLOVSKIY, Ch.S., inzhener; OSIPOV, S.I.,inzhener; ROMASHKOV, S.G.,inzhener; SOKOLOV, L.S.,inzhener; FAMINSKIY, G.V.,kandidat tekhnicheskikh nauk; SHATSILLO, A.A.,inzhener; SHLYAKHTO, P.N.,dotsent, kandidat tekhnicheskikh nauk; BOVE, Ye.G.,kandidat tekhnicheskikh nauk, retsenzent; PERTSOVSKIY, L.M.,inzhener, retsenzent; ALEKSEYEV, A.Ye.,professor, doktor tekhnicheskikh nauk, retsenzent; BATALOV, N.N.,inzhener, retsenzent; VINBERG, B.N.,inzhener, retsenzent; GRACHEVA, L.O., kandidat tekhnicheskikh nauk, retsenzent; YEVDOKIMOV, A.M., inzhener, retsenzent; KALININ, S.S.,inzhener, retsenzent; TRAKHTMAN, L.M.,kandidat tekhnicheskikh nauk,retsenzent; PYLENKOV, A.P.,inzhener, retsenzent; GOKHSHTEYN, B.Ya.,kandidat tekhnicheskikh nauk, retsenzent; IL'IN, I.P.,inzhener, retsenzent; NAKHODKIN, M.D.,dotsent, kandidat tekhnicheskikh nauk, retsenzent; TISHCHENKO, A.I.,otvetstvennyy redaktor; BENGISHEVICH, I.I., kandidat tekhnicheskikh nauk, redaktor; ZORONOVICH, A.Ye.,dotsent kandidat tekhnicheskikh nauk, redaktor; LUTSENKO, Ye.G.,inzhener, redaktor; ROGOZHIN, A.P.,inzhener, redaktor; SIDOROV, N.I., inzhener, redaktor; VERINA, G.P.,tekhnicheskiy redaktor

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZAKHARCHENKO, D.D.---(continued) Card 2.

[Technical manual for railroad workers] Tekhnicheskii spravochnik zheleznodorozhnika. Red. kollegiia R.G. Granovskii i dr. Moskva, Gos. transp. zhel-dor. izd-vo. Vol. 9.[Electric railroad rolling stock] Elektropodvizhnoi sostav zheleznykh dorog. Otv. red. toma A.I. Tishchenko. 1957. 652 p. (MLRA 10:4)

1. Chlen-korrespondent Akademii nauk SSSR. (for Alekseyev)
(Electric railroads--Rolling stock)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A. YE.

ZOROKHOVICH, A.Ye., dotsent, kandidat tekhnicheskikh nauk.

How to read electric circuit diagrams. Elek. i tepl. tiaga no.3: 24 and insert Mr '57. (MLRA 10:6)
(Electric locomotives)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, Aleksandr Yefimovich; LIMAN, Anatoliy Zakharovich; KEKHUTMAN, S.V., red.

[Repair of the electrical equipment of passenger cars] Remont elektrooborudovaniia passazhirskikh vagonov. Moskva, Transport, 1964. 313 p. (MIRA 17:10)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

L 46213-66 EWT(1)
ACC NR: AT6015187 SOURCE CODE: UR/2649/66/000/221/0045/0062

AUTHOR: Zorokhovich, A. Ye. (Professor, Doctor of technical sciences) 43 B+1

ORG: none

TITLE: D-c-to-polyphase power inversion by a controllable rotary inverter 25

SOURCE: Moscow. Institut inzhenerov zheleznodorozhnogo transporta. Trudy, no. 221, 1966. Voprosy elektrotekhniki i elektromekhaniki (Problems of electrical engineering and electromechanics), 45-62

TOPIC TAGS: rotary inverter, electric energy conversion, power inverter

ABSTRACT: A controllable "autodyne"-type rotary can operate as a d-c/a-c inverter only in parallel with some other source of a-c power. The present article offers an improvement of the above machine that enables it to operate as an autonomous inverter. The transition from converter to inverter operation is analyzed by vector diagrams. Normally, the inverter draws reactive power from the a-c system. This can be obviated by applying a current pulse to a stator coil; this pulse transfers the magnetic-flux vector in such a way that the machine

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current acquires a leading reactive component. To ensure constant frequency of the autonomous inverter, an additional d-axis field winding is recommended; this winding must be supplied from a conventional frequency controller. A-c voltage stabilization can be ensured by supplying the q-axis field winding from an external source, via a conventional voltage regulator. The problems of a-c voltage and frequency regulation under load, converter-inverter-operation transfers, and commutation are also explored. Experiments with a 10-kw inverter generally corroborated the above theoretical results; the converter-inverter transfer was accompanied with a 20% voltage dip and a 3% frequency dip which lasted 0.4 sec. Orig. art. has: 14 figures and 2 formulas.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 004

Card 2/2 blg

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

LITOVCHENKO, V.V.; ZOROKHOVICH, A.Ye., kand. tekhn. nauk

Recovery of electric power during rheostatic testing. Elek. i tepl. tiaga 7 no.9:26-28 S '63. (MIRA 16:10)

1. Rukovoditel' gruppy Giprozavodtransa (for Litovchenko).

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, Aleksandr Yefimovich, kandidat tekhnicheskikh nauk; KOLOKOLOV, Aleksandr Aleksandrovich, inzhener; SKRIPKIN, Viktor Vasil'yevich, inzhener; OSADCHUK, G.I., inzhener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Trains refrigerated by machinery] Poezda s mashinnym okhlozhdeniem; ustroistvo i ekspluatatsiia. Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 347 p. (MLRA 10:3)
(Refrigerator cars)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, Aleksandr Yefimovich; KOLOKOLOV, Aleksandr Aleksandrovich; OSADCHUK, Grigoriy Ivanovich, inzh.; SKRIPKIN, Viktor Vasil'yevich; SELIVANOV, V.I., inzh., retsenzent; KHITROV, P.A., tekhn. red.

[Trains with mechanical refrigeration; construction, operation, maintenance, and repair] Poezda s mashinnym okhlazhdeniem; ustroistvo, ekspluatatsiia i remont. Izd.2., perer. i dop. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 371 p. (Railroads—Electric equipment) (MIRA 14:11)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, Aleksandr Yefimovich; KRYLOV, Sergey Kononovich; SIDOROV, N.I., inzh., red.; KHITROV, P.A., tekhn.red.

[Fundamentals of electric engineering for locomotive crews] Osnovy elektrotekhniki dlia lokomotivnykh brigad. Izd.2., perer. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshcheniia, 1960. 453 p. (MIRA 14:2)
(Electric engineering) (Locomotives)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A. Ye., Doc Tech Sci -- (diss) "Application of regulated single-armature transformers (autodynes) for supply and automatic control of electrical installations on rolling stock and a system of power supply on electrified railroads." Moscow, 1960. 37 pp; (Ministry of Railroads USSR, Moscow Order of Lenin and Order of Labor Red Banner Inst of Railroad Transport Engineers im I. V. Stalin); 200 copies; price not given; list of author's work on pp 35-36 (11 entries); (KL, 22-60, 135)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

SOV/112-59-5-9121

32(3)

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 102 (USSR)

AUTHOR: Bashuk, I. B., and Zorokhovich, A. Ye.

TITLE: Using Semiconductor Rectifiers on Diesel-Electric Locomotives

PERIODICAL: Elektr. i teplovozn. tyaga, 1957, Nr 12, pp 36-37

ABSTRACT: With 3,000-5,000 hp gas turbines and diesels used on gas-turbine locomotives and diesel-electric locomotives, difficulties arise in creating a simple and reliable system of electrical transmission. These difficulties are due to the fact that a DC generator cannot be designed for such capacity because of cooling, commutation, and mechanical strength conditions which all depend on its speed. Modern generator designs go as high as 1,500 kw (with permissible loading of 500 amp per 1 cm of armature circumference, average bar-to-bar voltage 28 v and peripheral armature speed 50 m/sec). With higher-speed prime movers, the generator capacity becomes lower. These facts require that a number of generators be coupled to the gas-turbine shaft,

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Using Semiconductor Rectifiers on Diesel-Electric Locomotives

which results in complicating both power plant and electrical schemes. Use of reducers appreciably increases the weight and size of the generator apparatus. The problem of increasing both capacity and speed of the generator can be successfully solved by using 3-phase synchronous generators and semiconductor rectifiers connected in a 3-phase bridge circuit. Rectified-current ripple amounts to only 6%, so that smoothing reactors are not needed. In this scheme, the synchronous-generator field winding is fed from a synchronous exciter also via semiconductor rectifiers. The field is controlled by an automatic regulator. This scheme retains conventional DC traction motors, only one generator is needed for a diesel-electric locomotive of any capacity, and the generator size decreases with increasing speed. A speed increase from 1,000 to 3,000 rpm permits cutting the generator length and diameter 1.32 times, and weight 2.28 times. The size of 3,000-4,000-kw silicon rectifiers is only 0.5-0.7 m^3. This type of transmission leads to simplified equipment,

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

Using Semiconductor Rectifiers on Diesel-Electric Locomotives

lesser maintenance, and increased reliability of the power plant. A synchronous-generator locomotive can also be used as a mobile electric generating station.

L.A.Ch.

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A.Ye., kand. tekhn. nauk, dots.

Automatic charging of storage batteries. Avtom. telem. i sviaz' 3 no.5:30-32 My '59. (MIRA 12:8)
(Railroads--Batteries)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A.Ye., dots., kand. tekhn. nauk.

Using regulated single-armature transformers for electric power supply to passenger cars. Trudy MIIT no.95:131-152 '58.
(MIRA 11:12)

(Electric transformers) (Railroads--Passenger cars)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A.Ye., kand. tekhn. nauk; GLUSHITSKIY, I.V., inzh.

Automatic charging unit for diesel locomotive storage batteries.
Elek. i tepl. tiaga 3 no.3:10-12 Mr '59. (MIRA 12:5)
(Diesel locomotives--Batteries--Maintenance and repair)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

8(0), 12(3) PHASE I BOOK EXPLOITATION SOV/1545

Zorokhovich, Aleksandr Yefimovich, and Anatoliy Zakharovich Libman

Opyt remonta elektrooborudovaniya passazhirskikh vagonov (Repairing Electrical Equipment of Railroad Passenger Cars) Moscow, Transzheldorizdat, 1958. 90 p. 5,000 copies printed.

Ed.: M.M. Broksh, Engineer; Tech. Ed.: G.P. Verina.

PURPOSE: This booklet is intended for workmen overhauling and repairing the electrical equipment of railroad passenger cars in plants and depots.

COVERAGE: The authors describe the experience of the Elektrotsekh vagonnogo depo st. Moscow III Severnoy dorogi (Electrical Workshop of the Car Depot of Moscow III Station, Northern Railroad) in the repair and overhaul of basic units of electrical equipment of steel passenger cars. They explain the workshop tools, jigs and repair equipment and describe methods of testing and checking. The book also describes new repair methods developed

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and introduced by the crew of this electrical workshop. The repair and test equipment was developed by the crew under the supervision of the Chair of Electrical Engineering of MIIT imeni I.V. Stalin. The authors thank Doctor of Technical Sciences M.A. Petrov, professor at MIIT, Engineer I.V. Surguchev of the Rizhskiy elektromashinostroitel'nyy zavod, and B.V. Makushin, manager of the above-mentioned workshop. There are no references.

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Repairing Electrical (Cont.) SOV/1545

AVAILABLE: Library of Congress (TF455.Z6)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

AUTHORS: Benedikt, O.V., and Gorokhovich, A.Ye. SOV/19-58-6-185/685

TITLE: A Device for Automatically Controlling the Reactive Power of Electrical Installations (Ustroystvo dlya avtomaticheskogo regulirovaniya reaktivnoy moshchnosti elektricheskikh ustanovok)

PERIODICAL: Byulleten' izobreteniy, 1958, Nr 6, p 44 (USSR)

ABSTRACT: Class $21d^2$, 6_{01}. Nr 113839 (425094 of 30 Mar 1950) Submitted to Gostekhnika SSSR. A device for the automatic control of the reactive power of electric machines, in particular for keeping the power factor equal to a unit, based on the regulation of the excitations of a synchronous machine; with the design simplified and the control accuracy improved by the use of an autodyne for the excitation of the synchronous machine, and feeding to the control winding of this autodyne the difference of two rectified voltages, each of which represents the vector sum of one

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A Device for Automatically Controlling the Reactive Power of Electrical Installations

half of the voltage acting between two line wires and a voltage proportional to the current flowing along the third wire; control is made possible over a wide range by means of a phase adjuster and potentiometer allowing the position of the voltage vector to be changed.

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A.Ye., kand.tekhn.nauk; RATMIROV, V.A., kand.tekhn.nauk

Ajustable single-armature "Avtodin" converter. Vest. elektroprom. 29 no.9:36-41 S '58. (MIRA 11:10)
(Electric current converters)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A.Ye., dots., kand. tekhn. nauk

Using regulated single-armature tranformers for automatic charging of storage batteries. Trudy MIIT no.95:105-130 '58. (MIRA 11:12)

(Electric transformers) (Railroads--Batteries)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, Aleksandr Yefimovich,; LIBMAN, Anatoliy Zakharovich,; BROKSH, M.M.,inzh., red.; VERINA, G.P., tekhn. red.

[Repairing electrical equipment of railroad passenger cars] Opyt remonta elektrooborudovaniia passazhirskikh vagonov. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 90 p. (MIRA 11:12)
(Railroads--Electric equipment--Maintenance and repair)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

SOV/110-58-9-9/20

AUTHORS: ~~Zorokhovich, A.Ye.~~ and Ratmirov, V.A. (Candidates of Technical Science)

TITLE: The 'Autodyne' Controlled Rotary Convertor (Reguliruyemyy odnoyakornyy preobrazovatel' 'Avtodin')

PERIODICAL: Vestnik Elektropromyshlennosti,1958,Nr 9,pp 36-41(USSR)

ABSTRACT: The theory of the autodyne was developed and the first experimental investigations were made on it, in the Dept. of Electrical Machines of the MIIT, under the guidance of Prof. O.V. Benedikt. Further development work was carried out collectively by the MIIT and the Scientific Research Institute of the Electro-technical Industry (Prof. O.V. Benedikt, Cand.Tech.Sci. A.E. Zorokhovich, Engineer Ye.M. Kovarskiy, Engineers A.A. Ratov and L.R. Shal'man, Candidates of Technical Science T.G. Ambartsumov, S.I. Barskiy, and V.A.Ratmirov). They developed the machine to the stage of manufacture of experimental batches. Then, in 1948-1952, autodynes series A2B-A6B were designed and constructed, and individual examples of the experimental series of autodynes AZ for battery charging were made. The operating principles of the autodyne are explained. In the general case, the rotor carries two windings; a multi-phase a.c. winding

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The 'Autodyne' Controlled Rotary Convertor

connected to slip-rings, and a d.c. winding connected to a commutator. In a particular case, these windings may be combined. The machine takes supply from the a.c. side and delivers d.c. from the commutator. The rotor runs at synchronous speed. The stator bears a number of excitation and control windings; its magnetic system differs from that of the ordinary rotary convertor by the presence of split poles which carry the cross-windings. There may also be additional brushes. In the autodyne, the d.c. output voltage is varied by changing the brush position. The operation of the autodyne is explained; the vector diagram is given in Fig 1 and e.m.f. equations are written. The operation of the autodyne is considered with reference to two circuits. Fig 2a is a schematic and circuit diagram of an autodyne delivering constant load current, as in accumulator charging, and relates to autodynes series AZ. A diagram of an autodyne of constant output voltage is given in Fig 2b; this circuit was used for the experimental machines type AZB. The d.c. voltage can be varied over a wide range. Other laws of current and voltage change are

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The 'Autodyne' Controlled Rotary Convertor

easily obtained; for example, Fig 3 shows the circuit of an autodyne with a falling volt-ampere characteristic. Torque equations for the autodyne are then derived. The autodyne has, in addition to the control winding, a number of auxiliary stator windings which serve to relieve the armature of the magnetising current, to compensate internal torques of the machine, and to increase the efficiency of regulation. Although important in operation, these windings do not affect the fundamental principles of the machine. The different kinds of winding that are used are then described. Then the particular types of autodyne that have been manufactured are discussed. Photographs of autodynes types A2-A6B of 3.5 kW are reproduced in Fig 5a; the characteristics are compared with those of an amplidyne in Table 1. The Yaroslavl' Electric Motor Works has produced an experimental series of autodynes for charging batteries; a photograph of one of these machines appears in Fig 5b, and general technical data in Table 2. Test results on autodynes are then given. The regulation of an autodyne type AZB working in a circuit with voltage negative feed

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back (as in Fig 2b) is plotted in Fig 6a. The difference between the theoretical and experimental load-characteristic results from the presence in the machine of uncompensated internal torques, from hysteresis in the magnetic circuit and also from changes in the supply and control voltage. Load characteristics of a machine AZB are given in Fig 6b. When the current alters from zero to full load the d.c. voltage change does not exceed 1.5%. The load characteristics of autodynes series A5B and AZ operating in a circuit with current negative feed-back (as Fig 2a) are given in Fig 7 for various values of control circuit. An oscillogram of voltage and control current for machine AZB when the polarity of the control voltage is reversed is depicted in Fig 8, and demonstrates the satisfactory response-time of the autodynes. In operation autodynes can deliver leading reactive power to the supply.

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The 'Autodyne' Controlled Rotary Convertor SOV/110-58-9-9/20

Autodynes are somewhat more complicated in construction than ordinary d.c. machines, but this is typical of a rotary amplifier; their transient performance requires further study.

There are 2 tables, 8 figures and 3 Soviet references.

SUBMITTED: March 25, 1958

1. Electromechanical converters--Control systems 2. Control systems --Design

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APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, A.Ye.

BENEDIKT, O.V.; BASHUK, I.B.; ZOROKHOVICH, A.Ye.; SAZONOV, inzh., red.; VERINA, G.P., tekhn.red.

[Electric drives in diesel- and gas-turbine locomotives equipped with a. c. machinery] Elektricheskie peredachi teplovozov i gazoturbovozov s mashinami peremennogo toka. Moskva, Gos. transp. zhel-dor. izd-vo 1958. 78 p. (Moscow. Moskovskii institut inzhenerov zheleznodorozhnogo transporta. Trudy, no.106). (MIRA 11:4)
(Locomotives--Electric driving)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

Zorokhovich, Aleksander Yefimovich

ZOROKHOVICH, ALEKSANDR YEFIMOVICH

N/5
663
.28

Osnovy elektrotekhniki dlya lokomotivnykh brigad (Basic electrical engineering for locomotive brigades, by) A. Ye. Zarokhovich i S.K. Krylov. Moskva, Tranzheldorizdat, 1957?

453 p. illus., diagrs., graphs.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

Zorokhovich, A. Ya.

BASHUK, I.B., kand. tekhn. nauk; ZOROKHOVICH, A.Ya., kand. tekhn. nauk.

On the use of semiconductor rectifiers in diesel locomotives. Elek. i tepl. tiaga no.12:36-37 D '57. (MIRA 11:1)
(Diesel locomotives) (Semiconductors)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, I. I.

ELKIN, O. A. Lecturer; ZOROKHOVICH, I. I.

"The Roentgenotherapy of Acariasis of the Face."

Vestnik venerologii i dermatologii (Bulletin of Venerology Dermatology), No 1, January-February 1954 (Bimonthly), Moscow.

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZORKHOVICH, A.Ya.

KALININ, V.K.; MIRONOV, K.A.; VITEVSKIY, I.V.; NIKIFOROV, B.D.; SKSYUNIN, V.S.; SOBOLEV, V.M.; ZORKHOVICH, A.Ye., kandidat tekhnicheskikh nauk; VERINA, G.P., tekhnicheskiy redaktor.

[Electric circuits of electric locomotives and maintenance of the equipment] Elektricheskie skhemy elektrovozov i ukhod za apparaturoi. Moskva, Gos.transp.zhel-dor.izd-vo, 1955. 178 p. (MLRA 8:4)
(Electric locomotives)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

MAKAROV, G.N.; KAZINIK, Ye.M.; POPCHENKO, R.A.; SEMENOV, A.S.; YERKIN, L.I.; RYVKIN, I.Yu.; PRIVALOV, V.Ye.; MUSTAFIN, F.A.; KUZNETSOV, P.V.; ZOROKHOVICH, G.Ya.

Coking of the coal charge in an oven with a rotating ring floor. Koks i khim. no.11:34-41 '62. (MIRA 15:12)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva (for Makarov, Kazinik, Popchenko, Semenov). 2. Vostochnyy uglekhimicheskiy institut (for Yerkin, Ryvkin, Privalov). 3. Nizhne-Tagil'skiy metallurgicheskiy kombinat (Mustafin, Kuznetsov, Zorokhovich).
(Coke)

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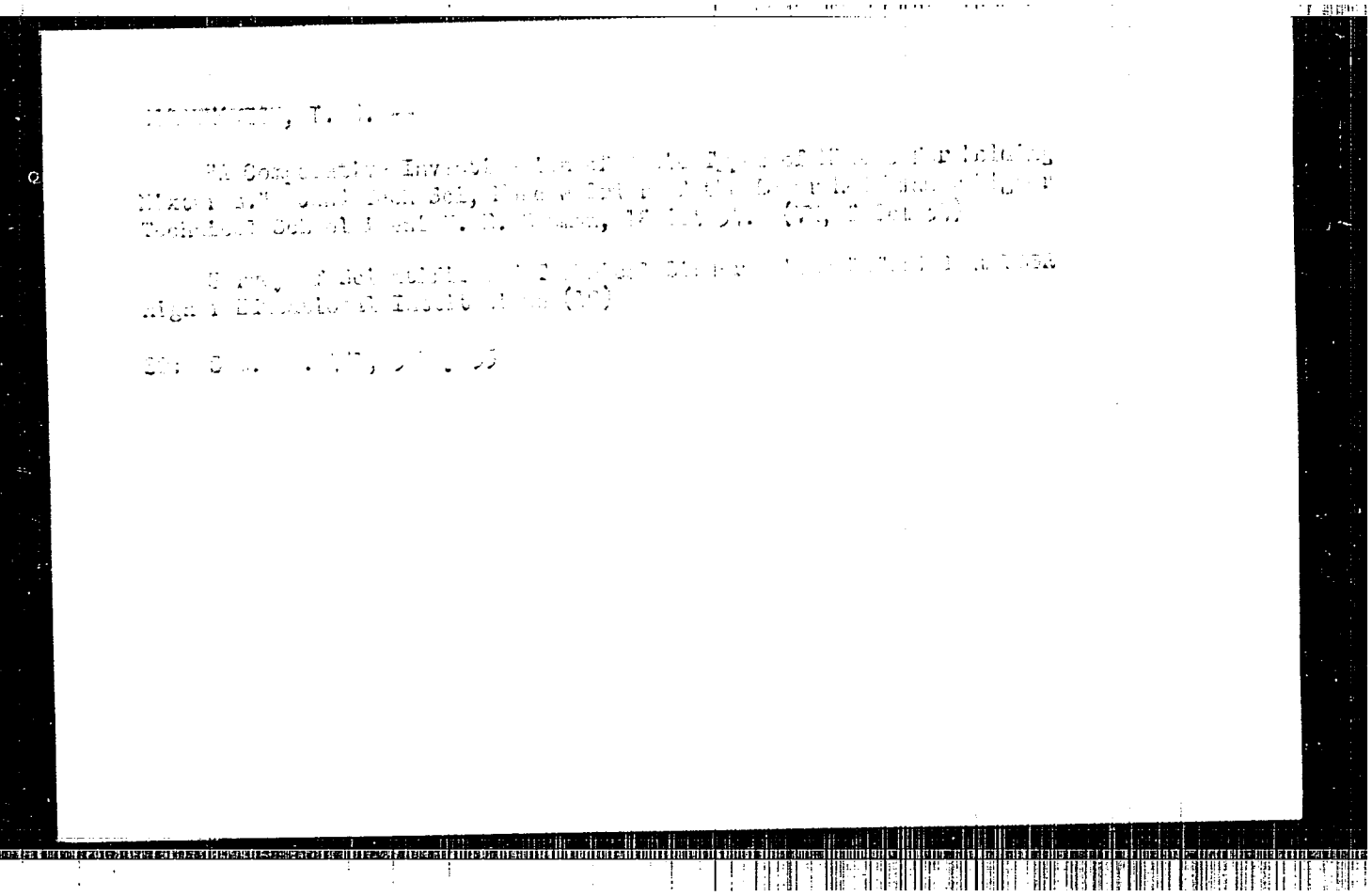

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

BEREZIN, B.V.; ZOROKHOVICH, G.Ya.

Screenless separation of the 0-3 mm. class from average coals prior to crushing. Koks. i khim. no. 3:57-58 '61. (MIRA 14:4)

1. Ural'skiy politekhnicheskiy institut (for Berezin). 2. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Zorokhovich).
(Coal handling)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

SHAKH, Ts.I., kandidat farmatsevticheskikh nauk; RAPAPORT, L.I., kandidat farmatsevticheskikh nauk; ZOROKHOVICH, I.I.

"Materials on the analysis of concentrates and medicinal compounds;" published by the Central Analytical Control Laboratory of the Moscow city branch of the Main Pharmaceutical Administration of the Ministry of Public Health of the R.S.F.S.R. Reviewed by Ts.I. Shakh, L.I. Rapaport, I.I.Zorokhovich. Apt.delo 5 no.4:63-64 Jl-Ag '56. (MLRA 9:9)
(DRUGS--ANALYSIS AND ADULTERATION)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, I. Z.

PHASE I BOOK EXPLOITATION SOV/4666

Voprosy teorii liteynykh protsessov (Problems of the Theory of Founding Processes) Moscow, Mashgiz, 1960. 692 p. 4,500 copies printed.

Sponsoring Agencies: Liteynyye kafedry i otdely Instituta liteynogo proizvodstva AN USSR; Minskogo fiziko-tekhnicheskogo instituta AN BSSR; Moskovskogo avtodorozhnogo instituta; Moskovskogo avtomekhanicheskogo instituta; Moskovskogo vechernego mashinostroitel'nogo instituta; Instituta stali imeni Stalina; Ural'skogo politekhnicheskogo instituta imeni S. M. Kirova; Tsentral'nogo nauchno-issledovatel'skogo instituta tekhnologii i mashinostroyeniya.

Reviewers: A. A. Ryzhikov (Head, Department of Founding, Gor'kiy Polytechnic Institute), A. Ye. Krivosheyev (Head, Department of Founding, Dnepropetrovsk Polytechnic Institute), and I. Příbyl (Head, Department of Founding, Higher School of Mining, Ostrava, Czechoslovakia); Editorial Board: P. I. Vasilevskiy, A. A. Zhukov, N. I. Klochnev, L. E. Konstantinov, and Ya. G. Polyakov; Managing Ed. for Literature on Heavy Machine Building: S. Ya. Golovin; Ed. of Publishing House: Yu. L. Markiz; Tech. Ed.: A. F. Uvarova.

PURPOSE: This book is intended for technical personnel of the founding industry.

COVERAGE: This book on founding theory is the result of the joint efforts of metallurgical departments of various schools of higher education and scientific research institutes. Theoretical studies and the scientific research in the field of founding are summarized and discussed. This volume (first of a planned series) is devoted to a number of important theoretical problems of founding dealing with molding, melting, pouring, solidification of casting, the machinery used, and automation. The terminology used in founding is also given. No personalities are mentioned. Each chapter is accompanied by references.

AVAILABLE: Library of Congress (TS230.V6)

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VK/dwm/ee
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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, I. Z.:

ZOROKHOVICH, I. Z.: "A comparative investigation of basic types of mixers for mold mixtures." Min Higher Education USSR. Moscow Automotive Mechanics Inst. Moscow, 1956. (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCE).

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

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, I. Z.

Founding

Practice in starting and adjusting a swinging mixer. Lit. proiz., No. 7, 1952.

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

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

AKSENOV, P.N.; BERG, P.P.; GODASHKOV, N.M.; VEYNIK, A.I.; GORSHKOV, A.A.; ZHAROV, N.T.; ZHUKOV, A.A.; ZOROKHOVICH, I.Z.; KUMANIN, I.B.; LEVI, L.I.; LYASS, A.M.; MARIYENBAKH, L.M.; OKLOV, G.M.; PORUCHIKOV, Yu.P.; RABINOVICH, B.V.; STOLBOVOY, S.Z.; FEYGEL'SON, B.Yu.; VASILEVSKIY, P.F., red.; KLOCHNEV, N.I., red.; KONSTANTINOV, L.S., red.; POLYAKOV, Ya.G., red.; MARKIZ, Yu.L., red.izd-va; UVAROVA, A.F., tekhn.red.

[Theory of founding processes] Voprosy teorii liteynykh protsessov. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 692 p. (MIRA 13:7)

(Founding)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ACC NR: AP6035840 (A) SOURCE CODE: UR/0413/66/000/020/0049/0050

INVENTOR: Zasov, I. A.; Zorokhovich, I. Z.; Karaban, G. L.; Mnukhin, L. S.; Soroka, V. P.

ORG: none

TITLE: Self-propelled machine for removing ice from improved road surfaces
Class 19, No. 187067

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 49-50

TOPIC TAGS: ~~airfield clearing,~~ airfield maintenance equipment, ~~highway clearing, highway ice removal~~, HIGHWAY ENGINEERING, ICE, SAFETY ENGINEERING

ABSTRACT: An Author Certificate has been issued for a vehicle for removing ice from improved road surfaces, consisting of a primary vehicle equipped with a chipping attachment, and of equipment for melting ice and drawing off the water. To improve the cleaning of the surface and prevent its damage, on the primary vehicle's frame is mounted a rotor-type chipping attachment with hammers. The hammers are located in spiral lines with overlapping gaps between them, and the rotor unit can be raised or lowered. The equipment for melting ice, located behind the rotor, has a cowl opening from below; in the upper part of the unit, in which the burners are located, blowing attachments are at the front wall, and at the rear wall, which is

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ACC NR: AP6035840

made of an elastic material, is a suction attachment connected to a tank. To this tank is connected the ventilator suction pipe which supplies air to the blowing attachments. The ventilator's suction pipe can be equipped with a safety valve. [WH]

Orig. art. has: 1 figure.

SUB CODE: 13,01 / SUBM DATE: 28Aug64

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROKHOVICH, G.Ya.

Centralized lubrication of plant equipment. Koks i khim. no.5: 49-50 '56. (Lubrication and lubricants) (MLRA 9:10)

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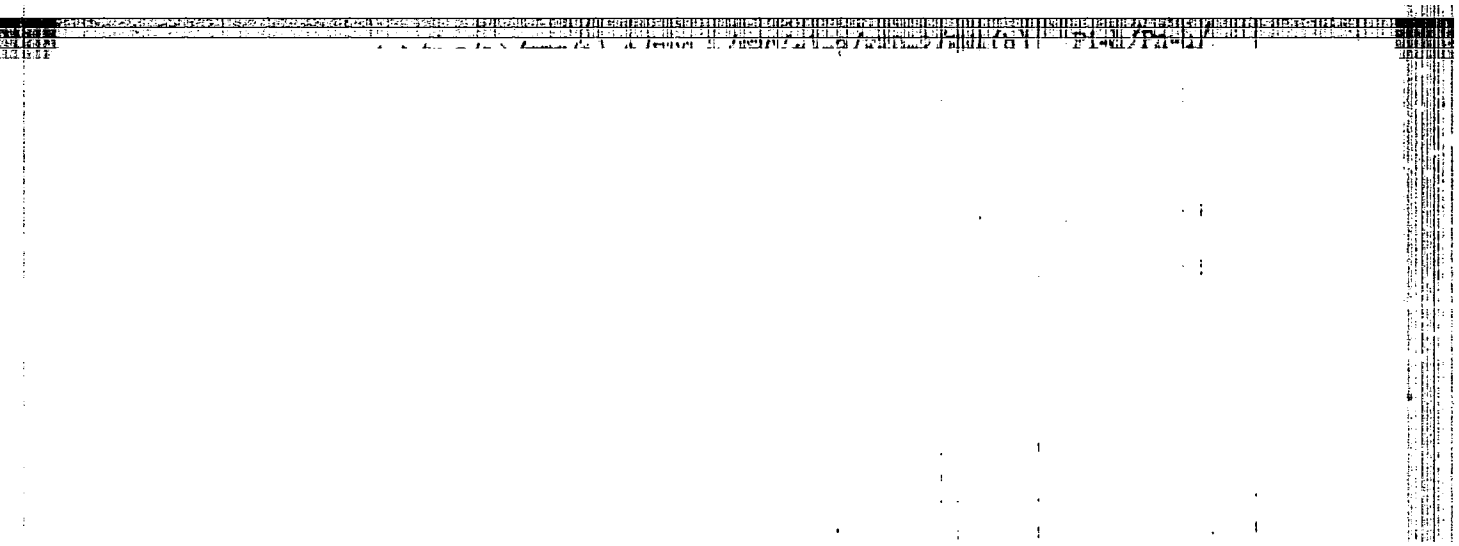

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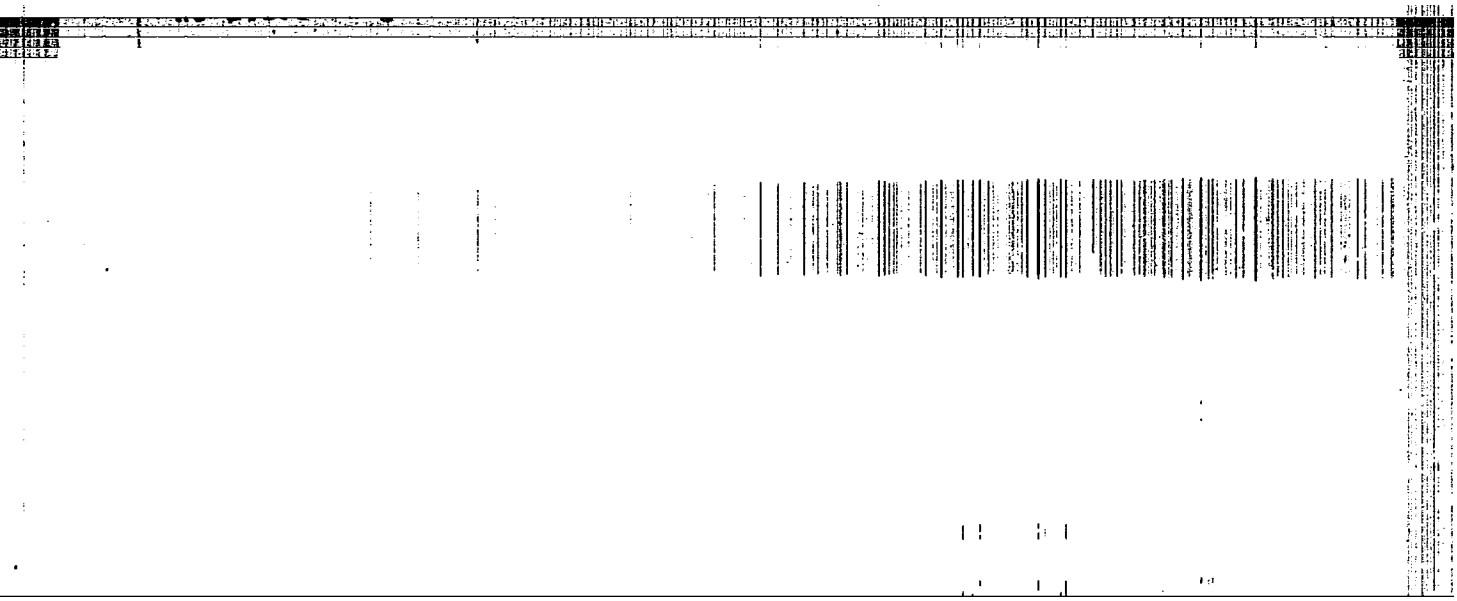

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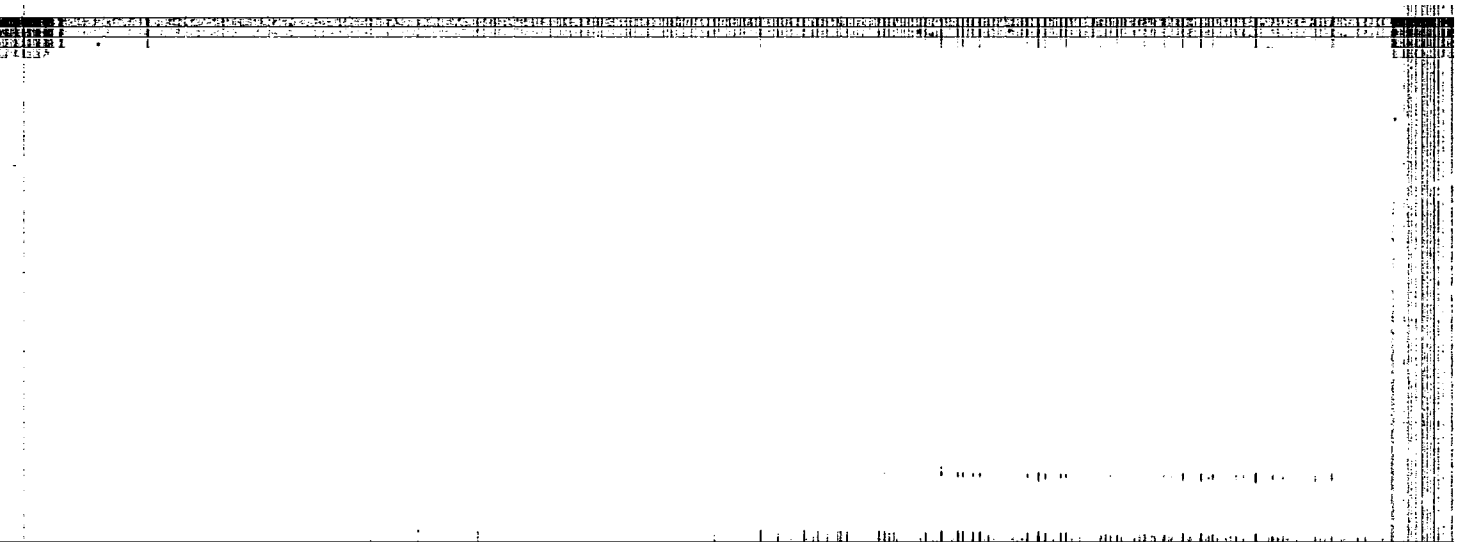

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Country : [illegible]
Category : Chemical Technology. Chemical Products (Part 3). Food Industry
Abs. Jour. : Ref Zhur-Khim., 1959, No 7, [illegible]

Author : [illegible]
Institut. :
Title : [illegible] Cheese

Orig. Pub. : [illegible], 1957, [illegible]

Abstract : A brief account is given on the methods of pro- [illegible] of [illegible]: the pro- [illegible] cheese [illegible] cheese, the [illegible] of the cheese-mass, the [illegible] and the [illegible] of cheeses in [illegible] con- tainers.-- [illegible]

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APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROV, B.I.

Automobiles made in Poland. Avt.prom. no.4:38-39 Ap '60.
(MIRA 13:6)
(Poland--Automobile industry)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROV, B.I.

The Volga passenger car. Avt.i trakt.prom. no.8:46 Ag '57.
(MIRA 10:12)

(Gorkiy--Automobiles--Design and construction)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROV, B.I.

The new Polish small cylinder capacity automobile "Sirena." Avt. i trakt. prom. no.2:45 F '57. (MLRA 10:3)
(Poland--Automobiles)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROV, B.I.

Interdependent suspension of the De Pontac automobiles.
Avt.i trakt.prom. no.3:46-47 Mr '57. (MLRA 10:5)
(Automobiles--Wheels)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

S/004/60/000/02/06/006

AUTHOR: Zorov, M.

TITLE: The N.S.Ye. Secret

PERIODICAL: Znaniye-Sila, 1960, No 2, p 42 (USSR)

TEXT: The author discusses "Secret N.S.Ye," a picture made by S. Rayburt (director), Yu. Berenshteyn (camera) and I. Bolgarin (script) in the Moscow studio of popular scientific motion pictures. "N.S.Ye." is a new winding machine designed by Ye. Yegorov, a mechanic from the Moscow Zavod shchetno-analiticheskikh mashin (Analytic Computers Plant). This miniature automatic machine is designed for winding tiny computer transformers. Until recently this was done by hand and one worker could complete a maximum of 30 tranformers during a shift. This new invention has increased the operating efficiency by ten times. There is 1 photograph.

Card 1/1

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROV, M.

Aviation, today and tomorrow ("In the skies of tomorrow" by K. Gil'zin. Reviewed by M. Zorov). Znan.sila 35 no.10:43 O '60. (MIRA 13:11)
(Aeronautics--Juvenile literature) (Gil'zin, K.)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROV, M.

Matenadaran and its treasures. Znan.sila 37 no.4:24-25 Ap '62.
(MIRA 15:4)

(Erevan--Historical libraries)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZOROV, M.

Secret of the N.S.E.winding machine. Znam.-sila 35 no.2:42 F '60. (MIRA 13:5)
(Electric transformers--Windings)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

PA 37/49T56

ZOROV, N. N.

Sep 48

USSR/Engineering
Machining
Machines, Milling

"Working Heat-Resistant Steels," N. N. Zorov, Cand Tech Sci, 2 3/4 pp

"Stanki i Instrument" No 9

Presents results of experiments on machining of austenite steels, using T-shaped disk-end milling cutters on horizontal milling machines. Gives characteristics of cutters used, and practical instructions for preparation and exploitation, with six diagrams.

37/49T56

FDB

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

5(3) SOV/71-59-3-18/23

AUTHORS: Shoykhet, M.I., Zorov, V.P., Breus, I.Ye.

TITLE: Determination of Acidity During the Inspection of Alcohol Production (Opredeleniye kislotnosti v kontrole spirtovogo proizvodstva)

PERIODICAL: Spirtovaya promyshlennost', 1959, Nr 3, pp 41-42 (USSR)

ABSTRACT: Acidity is an important indicator of semi-products in the production of alcohol. In the determination of the titratable acidity methyl-red is usually employed as indicator. However, to obtain a more marked change of color, it is better to use a mixture of two indicators, viz. neutral red and methylene blue. Comparison of results obtained in determining the titrable acidity with methyl red and with mixed indicators are shown in a table. In each case two parallel analyses were performed by 2 chemists 3 times. As can be seen from the table, results obtained with the mixed indicator show a closer similarity of results than in the case of those obtained with methyl red; this shows that with the mixed indicator a more abrupt change from

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

BUSHKOV, V.G., dotsent; ZOROVA, A.S., veterinarnyy vrach; BARKOV, G.D., veterinarnyy vrach

Treatment of dogs with coprostasis. Veterinariia 39 no.9:56-57 S '62. (MIRA 16:10)

1. Kazanskiy veterinarnyy institut (for Bushkov). 2. Respublikanskaya veterinarnaya poliklinika, Kazan' (for Zorova, Barkov).

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

BUSHKOV, V. G. (Docent, Kazan' Veterinary Institute), ZOROVA, A. S. and BARKOV, G. D. (Veterinary Doctors, Republic Veterinary Policlinic).

"Treatment of dogs suffering from coprostasis"

Veterinariya, vol. 39, no. 9, September 1962, p. 56

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

BUSHKOV, V.G., dots.; BARKOV, G.D., vet. vrach; ZOROVA, A.S., vet. vrach.

Using an erythrocyte clot in the treatment of penetrating wounds of the joints in horses. Veterinariia 34 no.2:47-50 F '57. (MLRA 10:11)

1. Kazanskiy veterinarnyy institut i gorodskaya veterinarnaya poliklinika.

(Joints--Wounds and injuries) (Blood--Coagulation) (Horses--Diseases and pests)

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Distr: 4E2c

✓ 6060

539.384

Zorski H. Some Cases of Bending of Anisotropic Plates.

„Pewne przypadki zginania płyt anizotropowych", Archiwum Mechaniki Stosowanej (PAN), No. 1, Warszawa, 1959, pp. 71—91, 3 figs.

The method worked out by the author in his previous papers has been applied in examination of anisotropic semi-plane, and orthotropic semi-plane, quarter-plane and semi-band. The author introduces adequate potentials — general solutions of the equilibrium equation — hence the formulae for force moments on the edge of the semi-plane, containing all peculiarities in an evident form. The problem of bending of anisotropic semi-plane under various edge conditions is reduced to a markedly peculiar integral equation (or system of equations), solved in a closed form. Some solutions and examples are discussed. It is pointed out that, in the case of an orthotropic plate, all methods applied for isotropic plates are also fully suitable here, since the mixed derivatives do not appear in a number of expressions.

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

PIECHOCKI, W.; ZORSKI, H.

Thermoelastic problem for a wadge. Bul Ac Pol tech 7 no.10:555-565 '59. (EEAI 9:7)

1. Department of Mechanics of Continuous Media, Institute of Basic Technical Problems, Polish Academy of Sciences. Presented by W.Nowacki.

(Wadges) (Elasticity)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZORSKI, H.

General solutions of the conservation equations in curved spaces. (EEAI 9:7)
Bul Ac Pol tech 7 no.10:567-571 '59.

1. Presented by W.Nowacki.
(Curvature) (Calculus of tensors)
(Spaces, Generalized)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZORSKI, Henryk (Warsaw)

Projective formulation of the continuum mechanics equations Pt.1. Archiw mech 12 no.5/6:617-638 '60.

1. Department of Mechanics of Continuous Media, Institute of Basic Technical Problems, Polish Academy of Sciences, Warsaw.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

L 45845-66 T IJP(c) GG

ACC NR: AP6031529 SOURCE CODE: PO/0033/66/018/003/0301/0372

22
18
B

AUTHOR: Zorski, H. (Warsaw)

ORG: Department of Mechanics of Continuous Media, IBTP Polish Academy of Sciences

TITLE: Theory of discrete defects

SOURCE: Archiwum mechaniki stosowanej, v. 18, no. 3, 1966, 301-372

TOPIC TAGS: Lagrange theorem, galileo group, discrete defect theory, Newton law, Lame equation, Noether theorem

ABSTRACT: The article attempts to formulate a general field theory of discrete defects (dislocations, vacancies, cracks, etc.) in a linear elastic continuum. A defect is understood to be a single surface on which, in the general case, various field quantities, such as displacement or velocity, suffer displacement and stress vector discontinuities. The work is based on the variation principle. The variation of displacement leads to the field (Lame') equations. The variation according to the radius-vector of a defect leads to the equation of motion, which consists of a system

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of integro-differential equations. The given theory is nonlocal in time because of the finite velocities of disturbance propagations, and therefore of intersection of defects. These are defined as corresponding variation derivatives of Lagrangians. In the first part of the work, the defect in the linear continuum is determined, and elastic potentials are introduced on mobile surfaces. A Lagrangian theorem is then developed, as in any classical theory. It is assumed that the complete displacement is equal to the sum of the regular displacement, which is called complementary, and the displacements caused by defects and expressed through potentials. The Lagrangian is broken up into several parts: a field part, the influence of the field with the defects, the interaction between the defects, and the self-action of the defects. The forces derived are then examined. The forces of defect interaction do not generally satisfy the third law of Newton and are not central, the interaction force is infinite as in any linear field theory, etc. Finally the author examines the equations of motion of the defects and the integral laws of conservation: the quantity of motion, and the momentum of the quantity of motion and energy. The latter are developed on the basis of the Noether theorem and the invariance of a Lagrangian in relation to the transformations of the Galileo group. The author wishes to express his thanks to Prof. Dr. J. Rzewuski and his collaborators (Institute of Theoretical Physics, Wroclaw U.) for valuable discussions and useful remarks on the variational formalism of the theory. The help of Dr. Matczynski and Dr. Z. Mossakowska

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ACC NR: AP6031529 0

in discussing and in reading parts of the manuscript is also gratefully acknowledged. [GC]
Orig. art. has: 8 figures and 306 formulas.

SUB CODE: 12/ SUBM DATE: 16Nov65/ ORIG REF: 002/ SOV REF: 004/
OTH REF: 017/

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

L 45193-66 EWP(w) IJP(c) EM

ACC NR: AP6027424 SOURCE CODE: PO/0095/66/014/006/0513/0516

AUTHOR: Zorski, H.; Nowacki, W.

ORG: Department of Mechanics of Continuous Media, Institute of Fundamental Technical Problems, Polish Academy of Sciences (Zaklad mechaniki osrodkov cialych, institut podstawowych problemow techniki, PAN)

TITLE: Conservation principles for defects in an elastic continuum

SOURCE: Polska akademia nauk. Bulletin, Serie des sciences techniques, v. 14, no. 6, 1966, 513-516

TOPIC TAGS: elasticity, aerodynamic moment, crystal effect, elastic stress, material deformation, integral equation

ABSTRACT: Equations have been derived for the conservation of momentum and angular momentum for a system of defects (dislocation and crack) in an elastic field based on the integral identity of the linear theory of elasticity. The conservation equations obtained are linear with respect to displacement, deformation, and

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ACC NR: AP6027424

stress. The paper was presented by W. Nowacki. Orig. art. has: 1 figure and 13 formulas. [Based on authors' abstract]

[NT]

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

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APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

KAJFASZ, Stanislaw; OLESIAK, Zbigniew; ZORSKI, Henryk; HERCZYNSKI, Ryszard

Educational conferences of the Polish Academy of Sciences in Jablonna. Mechan teor stosow 2 no.2:99-102 '64.

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZORSKI, H. (Warsaw)

"On the construction of the stress tensors in continuous media".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 January - 5 February 1964.

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

SOKOLOWSKI, Marek, prof.; ZORSKI, Henryk, prof.

The Polish school of thermoelasticity. Horyz techn 17 no. 4: 9-10 Ap '64.

1. Dyrektor naukowy Instytutu Podstawowych Problemow Techniki, Polska Akademia Nauk, Warszawa (for Sokolowski).
2. Kierownik Pracowni Mechaniki Ciala Stalego, Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Warszawa (for Zorski).

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZORSKI, Henryk

Effects of the second degree in the theory of elasticity, plasticity, and mechanics of fluids; International Symposium in Haifa, April 21-29, 1962. Nauka polska 10 no.6:149-150 N-D '62.

1. Instytut Podstawowych Problemow Techniki, Polska Akademia Nauk, Warszawa.

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ZORSKI, Zbigniew

Some remarks on the computing and printing of mathematical and physical tables. Przegl geod 35 no.9:408 S '63.

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ERISKAN, I.P., inzh.,red.; VYDRA, A.Ya., inzh.,red.; VLASOTSKAYA, M.P., inzh., red.; GORDIYENKO, M.G., inzh.,red.; ZORUK, V.L., inzh.,red.; STARIKOVICH, P.K., inzh., red.; OVSYANNIKOV, Ya.S., red.

[Use of fast dyes and special types of finishes in the textile and knit goods industry; from the materials of the Republic Seminar] Primenenie stoikikh krasiteleĭ i spetsial'nykh vidov otdelok v tekstil'no-trikotazhnoĭ promyshlennosti; po materialam respublikanskogo seminara. Kiev, In-t tekhn. informatsii, 1962. 181 p.
(MIRA 17:11)

1. Respublikanskiy seminar po primeneniyu sinteticheskikh krasiteley i spetsial'nykh vidov otdelok v tekstil'no-trikotazhnoy promyshlennosti, Kiev, 1961. 2. Ukrainskiy nauchno-issledovatel'skiy institut po pererabotke iskusstvennykh i sinteticheskikh volokon (for Gordiyenko).

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BUZOV, Boris Aleksandrovich; POZHIDAYEV, Nikolay Nikolayevich; MODESTOVA, Tat'yana Alekseyevna; PAVLOV, Anatoliy Ivanovich; FLEROVA, Lyudmila Nikolayevna; ZORUK, Vladimir Luk'yanovich; SADYKOVA, F.Kh., dots., retsenzent; KUKIN, G.N., prof., red.; GRACHEVA, A.V., red.

[Practical laboratory work on the study of materials for the clothing industry] Laboratornyi praktikum po materialovedeniiu shveinogo proizvodstva. [By] B.A.Buzov i dr. Moskva, Legkaia industriia, 1964. 439 p. (MIRA 18:2)

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SUKHAREV, M.I., kand.tekhn.nauk; KARASEV, V.K., kand.tekhn.nauk; PAVLOV, A.I.; kand.tekhn.nauk, dots.; VADIMOVICH, I.I., kand.tekhn.nauk, dots. KOVALSKIY, A.G., inzh.; ZORUK, V.L., inzh.

"Fabrics for the clothing industry" by T.A.Modestova, L.N. Flerova, B.A.Buzov. Reviewed by M.I.Sukharev and others. Izv. vys.ucheb.zav.; tekh.leg.prom. no.2:111-116 '59. (MIRA 12:10)

1. Leningradskiy tekstil'nyy institut im. S.M.Kirova (for Sukharev, Karasev). 2. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti (for Pavlov, Vadimovich, Koval'skiy Zoruk).

(Textile fabrics) (Clothing industry) (Modestova, T.A.) (Flerova, L.N.) (Buzov, B.A.)

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7"

"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

POZHIDAYEV, Nikolay Nikolayevich, dotsent; PAVLOV, Anatoliy Ivanovich, dotsent; VADIMOVICH, Ivan Ivanovich, dotsent; KOVAL'SKIY, Anatoliy Grigor'yevich, inzh.; ZORUK, Vladimir Ivan'yanovich, inzh.; ANOKHIN, Viktor Vasil'yevich, inzh.; SERGIYENKO, L., red.; BONDARENKO, O., red.; GUSAROV, K., tekhn.red.

[Textile materials for the clothing industry] Materialovedenie shveinogo proizvodstva. Pod obshchei red. N.N.Pozhidaeva. Kiev, Gos.izd-vo tekhn.lit-ry USSR, 1959. 411 p. (MIRA 13:2)
(Clothing industry) (Textile fabrics)

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

1. ALEKSEYEV, M. I.; ZORYA, D. A.; VOVK, I. N.

2. USSR (600)

4. Paper industry

7. Large-scale mechanization of the production line. Bum. prom. 27, No. 5, 1952

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

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

L 06135-67 EWT(1) GW

ACC NR: AR6019794 SOURCE CODE: UR/0270/66/000/002/0036/0037

AUTHOR: Zorya, M.N.

TITLE: Investigation of the leveling instrument KONI-007

SOURCE: Ref. zh. Geod, Abs. 2.52.272

REF SOURCE: Sb. Razrabotka mestorozhd. polezn. iskopayemykh. Vyp. 3. Kiyev, Tekhnika, 1965, 64-72

TOPIC TAGS: geodetic instrument, leveling instrument, leveling instrument error, PROSPECTING / KONI-007 GEODETIC INSTRUMENT

ABSTRACT: Studies of the KONI-007 leveling instrument of the people's firm Zeiss(Jena) are described. RMS error of the horisontal line of vision setting is +/-.7". Limits of compensator at leveler axis inclination - off line of vision: + 12'40" to - 11'30"; at transverse inclinations: +/- 6'; compensator oscillation die in 1 - 2 sec. RMS readout errors are given in table 1. At a IV class leveling program, two lines, 1.2 and 2.2 km were leveled, with end point superelevations of 2.7 and 3.7 mm. Considerable vertical size of the instrument impairs work in high winds. The KONI-007 leveling instrument is recommended for use in prospecting and geodetic work. [Translation of abstract].

TABLE I. Readout errors.

Distance to scale (mt):	10	30	50	70
RMS readout error, (mm):	.048	.062	.112	.182

UDC: 528.541.2.089.6

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"APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R002065430004-7

ZORYA, N. I., Cand Tech Sci -- (diss) "Study by the method of modeling with equivalent materials of the process of displacement of rocks and earth surface in the cutting of a pitching coal seam under the conditions of the Donbass." Stalino, 1958. 28 pp (Min of Higher Education UkSSR. Donets Order of Labor Red Banner Industrial Inst im N. S. Khrushchev), 150 copies (KL, 43-58, 116)

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