

ORLIK, V.A., kand.med.nauk (L'vov, ul. Pekarskaya, d.43 kv. 4)

The problem of acute paraproctitis. Nov.khir. arkh. no.1:42-44
Ja-P '58 (MIRA 11:11)

1. Kafedra gospiatal'noy khirurgii (zav. - prof. L.N. Kuzmenko)
L'vovskogo meditsinskogo instituta.
(RECTUM--DISEASES)
(ANUS--DISEASES)

al f. EXCERPTA MEDICA Sec 9/Vol 13/5 SURGERY May 59 5, 16)

2691. PARARECTAL FISTULAS OR CHRONIC PARAPROCTITIS (Russian text) -
Orlik V. A. - SOV. MED. 1958, 3 (83-87)
The author performed operation on 42 patients with full or blind perianal fistulas and obtained complete cure in 33 cases. The condition for surgical cure is the total removal of the fistulous tract in blind external fistulas without damage to the sphincter ani. In treatment of full and blind fistulas the author holds the opinion that, besides removal of the fistulous tract, division of the sphincter ani is necessary, which does not give rise to complications. The author supplements the surgical treatment with local application of penicillin and streptomycin.
Mrozowski - Szczecin

ORLIK, V.A.; PANOV, V.I.; FRAYFEL'D. E.L.

Clinical aspects and angioarchitectonics of gastric lipoma; abstract.
Khirurgia 34 no.12:97 D '58. (MIRA 12:1)

1. Iz kafedry gosptal'noy khirurgii (zav. - prof. L.N. Kuzmenko) kafedry normal'noy anatomii (zav. - prof. A.P. Lyubomudrov) i kafedry patologicheskoy anatomii (zav. - prof. Ye. I. Pal'chevakiy) L'vovskogo meditsinskogo instituta.

(STOMACH--TUMORS)

L 1362-66

ACCESSION NR: AP5024573

UR/0219/64/058/008/0105/0107

AUTHOR: Sakhnovskaya, G. K.; Orlik, V. A.

5
B

TITLE: Certain immunological reactions in experimental burns

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny, v. 58, no. 8, 1964, 105-107

TOPIC TAGS: injury, immunology, experiment animal, blood, therapeutics

ABSTRACT: Experimental burns produce changes in phagocytic activity of leucocytes which are correlated with the stage of the pathological process. When burned animals are given transfusions of plasma from animals which have recovered from burns, there is a marked increase in phagocytic activity. Orig. art. has: 1 graph.

ASSOCIATION: L'vovskiy nauchno-issledovatel'skiy institut perelivaniya krvi (L'vov Scientific Research Institute for Blood Transfusion)

SUBMITTED: 01Jun62

ENCL: 00

SUB CODE: LS

NR REF SOV: 000

OTHER: 001

JPRS

Card 1/1

SAKHNOVSKAYA G.K.; ORLIK, V.A.

Effect of plasma transfusions from burn convalescents on the
properties of sera in experimental burn diseases. *Genet. i perel.
krovi* 1:30-32 '65.

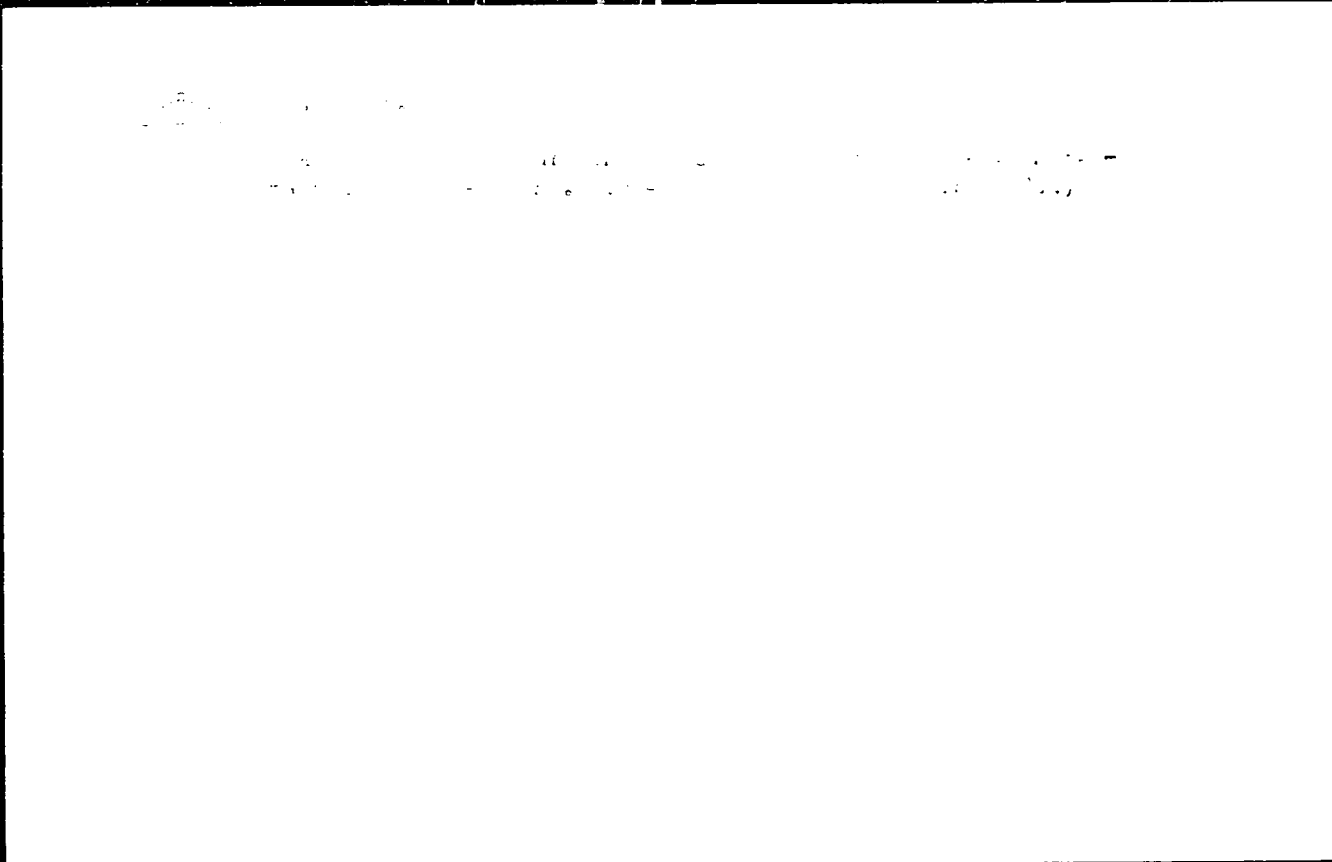
(MIRA 18 10)

1. L'vovskiy institut' pereklivaniya krovi.

ORLIK, V.G., inzh.

Cave-in of steam turbine rotors. Elek. sta. 34 no.5:26-28 My '63.
(MIRA 16:7)

(Steam turbines)



L 27268-66 EWT(m)/T DJ

ACC NR: AP6009831

(N)

SOURCE CODE: UR/0413/66/000/004/0022/0023

AUTHOR: Orlik, V. G.S1
B

ORG: none

TITLE: Labyrinth seal for turbomachinery. Class 14, No. 178828 /announced by the Central Scientific Research, Design, and Construction Steam Turbine Institute im. I. I. Polzunov (Tsentral'nyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy kotloturbinnyy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 22-23

TOPIC TAGS: labyrinth seal, rotating seal, sealing device, gas turbine, steam turbine

ABSTRACT: This Author Certificate presents a labyrinth seal for turbomachinery, for example, for steam or gas turbines, containing wipers attached to the stator (rotor). The wipers are bent opposite to the fluid flow and are located opposite to the shoulders and grooves of the rotor (stator). To decrease leakage and to permit required axial rotor travel, the shoulder profile has the form of a right trapezoid with its inclined end aligned with the fluid flow (see Fig. 1).

Card 1/2

UDC: 621.165-762.62

L 27268-66

ACC NR: AP6009831

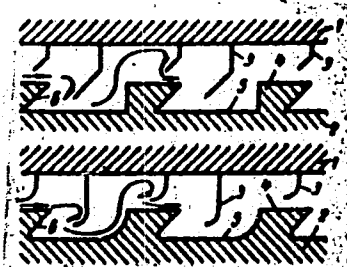


Fig. 1. 1 - stator; 2 - rotor; 3 - wipers; 4 - shoulder; 5 - groove; 6 - inclined end.

Orig. art. has: 1 figure.

SUB CODE: 13, 10, 21/ SUBM DATE: 23Sep64

Card 2/2 C.C.

ACC NR: AP7009121 SOURCE CODE: UR/0413/67/000/003/0110/0110

INVENTOR: Dolbilov, E. V.; Korabiev, B. N.; Orlik, V. G.

ORG: None

TITLE: A device for detecting and signalling points of contact in labyrinth turbine seals. Class 42, No. 191170 [announced by the Central Boiler and Turbine Institute im. I. I. Polzunov (Tsentral'nyy kotloturbinnyy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1967, 110

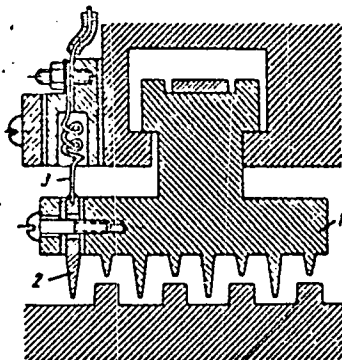
TOPIC TAGS: turbine rotor, turbine stator, rotating seal, measuring instrument

ABSTRACT: This Author's Certificate introduces a device for detecting and signalling points of contact in labyrinth turbine seals with movable serrated segments mounted on elastic springs in the turbine stator. The instrument contains a pickup contact which is isolated from the stator. To avoid changing the fit of the sealing segments and to improve reliability, the pickup is made in the form of a section of the movable sealing segment with an elastic element for connection to a secondary instrument.

Card 1/2

UDC: 620.1.085.3:621.165

ACC NR: AP7009121



1--movable segment; 2--contact; 3--flexible element

SUB CODE: ^{10/}~~13-14~~ SUBM DATE: '16Jan65

Card 2/2

L 10388-67

ACC NR: AP7003052

SOURCE CODE: UR/0096/66/000/011/0021/0029

AUTHOR: Orlik, V. K. (Engineer); Tkachev, V. V. (Engineer)

ORG: Rostov Section, Thermoelectric Project (Teploelektroproyekt, Rostovskoye otobleniye)

TITLE: 200,000 kilowatt steam-gas installation (FGU-200/210) with central steam generator-turbine institute operation

SOURCE: Teploenergetika, no. 11, 1966, 24-29

TOPIC TAGS: steam turbine, gas turbine, steam power-plant

ABSTRACT: The technical and economic indices of series produced, dual shaft steam-gas installations are presented, the reasons for the relative high cost of single shaft steam-gas installations based on series produced steam and gas turbines are revealed. Investigations have shown that with a transition to single shaft steam-gas turbines a reduction in capital investment in the main building of 20 to 21% can be realized. Comparative efficiencies, fuel consumptions, capital investments, metal required for production of main building, fluctuation of efficiency with load, usage of electric power for maintenance of the unit itself and suitability for combination are presented for the FGU-200, G2-35, K-160-130, FGU-200/240, K-200/130, VFG-450, VFG-450/500 and K-300-240 units. Orig. art. has: 5 figures and 5 tables. [JPRS: 39,183]

SUB CODE: 10 / SUBM DATE: none / ORIG REF: 005

Card 1/1 53

UDC: 621.165+621.438.001.5
2753 178

YAKOVKIN, A.A., otv. red.; ORLIK, Ye.L., red.; REKES, M.A., tekhn.
red.

[Brief astronomical calendar for 1964] Kratkii astron-
micheskii kalendar' na 1964 god. Kiev, Izd-vo AN USSR,
1963. 199 p. (MIRA 17:2)

1. Chlen-korrespondent AN Ukr.SSR (for Yakovkin).

KORNOUKHOV, Nikolay Vasil'yevich, akademik; BELYANKIN, F.P., akademik, otv. red.; STREL'BITSKAYA, A.I., doktor tekhn. nauk; AMIRO, I.Ya., kand. tekhn. nauk, red.; DLUGACH, M.I., kand. tekhn. red.; YEREMENKO, V.S., kand. tekhn. nauk, red.; NIKITIN, Yu.P., kand. tekhn. nauk, red.; PAVLOV, I.G., kand. tekhn. nauk, red.; POLYAKOV, P.S., kand. tekhn. nauk, red.; KIYANITSA-GUSLISTAYA, N.N., mlad. nauchn. sotr., red.; ORLIK, Ye.L., red.; LISOVETS, A.M., tekhn. red.

[Selected works on structural mechanics] Izbrannye trudy po stroitel'noi mekhanike. Kiev, Izd-vo AN Ukr.SSR, 1963. 321 p. (MIRA 17:2)

1. Akademiya nauk Ukr.SSR (for Kornoukhov, Belyankin).

BOGOLYUBOV, Aleksey Nikolayevich; SHTOKALO, I.Z., akademik, otv.
red.; ORLIK, Ye.L., red.

[History of mechanical engineering] Istorija mekhaniki
mashin. Kiev, Naukovadumka, 1964. 460 p. (MIRA 17:12)

1. Akademiya nauk Ukr.SSR (for Shtokalo).

YAKOVKIN, A.A., otv. red.; ORLIK, Ye.L., red.

[Short astronomical calendar for 1965] 'Kratkii astronomicheskii kalendar' na 1965 god. Vypusk 15. Kiev, Na-
ukova dumka, 1964. 157 p. (MLA 17:12)

1. Chief-correspondent AN Ukr.SSR (for Yakovkin.)

GLUSHKOV, Viktor Mikhaylovich; URLIK, Ye.L., red.

[Introduction to cybernetics Vvedenie v kibernetiku.
Kiev, Izd-vo AN USSH, 1964, 323 p. (MIRA 17:t)

ORLIK, Yu. [Orlyk, IU.]

Masters of metal arteries. Znan. ta pratsia no.2:18-19 P '63.
(MIRA 16:4)

(Pipe)

ORLICEK, Zdenek, dr. CSc.

"Methods of statistical and economic analysis of foreign trade
and world trade" by J.Horsky. Reviewed by Zdenek Orlicek.
Podn org 19 no.1:47-48 Ja '65.

ORLIK-GRZYBOWSKA, Antonina.

Proper methodology in orthodontics. Czasopismo stomat. 8 no.11:455-462 Nov. 1955.

1. Z Zakładu Ortodontji A.M. w Warszawie. Kierownik: doc. dr. A. Orlik-Grzybowska. Warszawa, Filtrowa 30/2.
(ORTHODONTICS,
methodol. in)

ORLIK-GRZYBOWSKI A, Antoni, prof. dr.

The utilization of far infrared rays in orthodontic practice.
Cosm. dent. 1977; 5:517-522. Xp756.

1. Z Kliniki Ortodontji Akademii Medycyny w Warszawie - (Kierownik: prof. dr. A. Orlik-Grzybowski).

GRLIKOV, B. M.

Feeding and Feeding Stuffs

Steamer for coarse feeds. B. M. Grlikov., Form.
baza, 2, no. 12, 1951

9. Monthly List of Russian Accessions, Library of Congress, April 1953², Uncl.

ORLIKOV, B. M.

"Investigation of the Process of Artificially Drying Grass in a Pneumatic Dryer." Cand tech Sci, Joint Scientific Council of the All Union Sci Res Inst for the Mechanization of Agriculture and the All-Union Sci Res Inst for the Electrification of Agriculture, Moscow, 1.55. (KL, No 9, Feb 55)

SC: Sum. No. 631, 26 Aug 55--Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

ORLIKOV, B.M., kand.tekhn.nauk

Production and storage of hay meal. Ptitsevodstvo 9 no.5:33-35
My '59. (MIRA 12:7)

(Hay)

ORLIKOV, L.

Automatic device for switching-in standby low-voltage currents.
Zhil.-kom.khoz. 10 no.2:25 '60. (MIRA 13:5)

1. Nachal'nik ekspluatatsii Yegor'yevskogo otdeleniya Mosoblektro.
(Electric switchgear)

SVIRIDENKO, S.Kh.; AKHMECHET, L.S.; VOLKOV, A.A.; MEYSTEI', A.M.;
MIZHEVSKIY, L.L.; POLYAKOV, L.M.; RASHKOVICH, M.I.;
SRIFER, L.A.; KHVALOV, Yu.G.; SEPIGLER, L.A.; SHRAGO,
L.K.; ORLIKOV, M.L., inzh., retsenzent; SVECHNIKOV, L.V.,
inzh., retsenzent; MATSIYEVSEIY, A.G., inzh., red.

[Elements of the automation of machine tools] Elementy
avtomatizatsii metallorezhushchikh stankov. Moskva, Mash-
giz, 1964. 210 p. (MIRA 17:12)

ORLIKOV, M. I.,

PHASE I

TREATY FIELD NO. GRAFICAL SECT ID 718 - 1

BOOK

Call No.: AF520410

Authors: BONDAR', I. I., Cand. of Tech. Sci., ORLIKOV, M. I., Cand. of Tech. Sci.,
LOPATKA, A. Ya., eng.

Full Title: ADJUSTMENT OF AUTOMATIC AND SEMI-AUTOMATIC LATHES

Transliterated Title: Nalazka tok rnykh avtomatov i poluavtomatov

PUBLISHING DATA

Originating Agency: None

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

Date: 1951 No. II.: 275 No. of copies: 7, 500

Editorial Staff: Sivay, A. V., Dotsent - editor
Vasilenko, I. I. eng. - Appraiser

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

TEXT DATA

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

NOTE: See card for 4. 1. 1. for pages 5 of report.

MIKHNEVICH, V.N.; ORLIKOV, M.L., kandidat tekhnicheskikh nauk, redaktor;
SAMOKHVALOV, Ya.A., inzhener, redaktor; RUDENSKIY, Ya.V., tekhnicheskiy redaktor

[Experience of a turner and repairman] Opyt tokaria-remontnika.
Kiev, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry Ukrain-
skoe otделение, 1954. 51 p. (MIRA 8:7)
(Lathes)

ORLIKOV, Mikhail L'vovich, kandidat tekhnicheskikh nauk; BROYDO, B.Ye.,
kandidat tekhnicheskikh nauk, dotsent, retsentsent; LEUTA, V.I.,
inzhenер, redaktor; RUDENSKIY, Ya.V., tekhnicheskii redaktor.

[Cam mechanisms of automatic machines] Kulachkovye mekhanizmy
mashin-avtomatov. Kiev, Gos. nauchno-tekhn. izd-vo mashinostroitel'-
noi lit-ry, 1955. 145 p. (MLRA 9:4)
(Cams) (Machinery, Automatic)

GREBEN^o, I.I., redaktor; GROZIN, B.D., redaktor; GUL'KO, M.M., redaktor;
LYCH, N.M., redaktor; ORLIKOV, M.L., redaktor; PAYNERMAN, I.D.,
redaktor; KHAYMOVICH, Ye.M., redaktor; SERDYUK, V.K., inzhener,
redaktor; MUDENSKIY, Ya.V., tekhnicheskij redaktor.

[Automation in machine building] Avtomatizatsia v mashinostroenii.
Kiev, Gos.nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry, 1955.
289 p. [Microfilm] (MLRA 9:1)

1. Vsesoyuznoye nauchno-tekhnicheskoye obshchestvo mashinostroitel'noy
promyshlennosti. Kiyevskoye oblastnoye otdeleniye.
(Automation) (Mechanical engineering)

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

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

82657

S/123/59/000/09/09/036
A002/A001

18.5200
Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1959, No. 9, p. 77,
33429

AUTHOR: Orlikov, M. L.

TITLE: The Possibility of Reducing the Dynamic Loads During the Rotation
of Spindle Drums of Automatic and Semiautomatic Lathes

PERIODICAL: Izv. Kiyevsk. politekhn. in-ta, 1957, Vol. 24, pp. 191-201

TEXT: The author discusses methods of reducing the dynamic loads and makes more precise the method of calculating the power required for rotating the spindle drum. The four-slot Geneva cross usually applied in the rotation mechanism has unfavorable dynamic characteristics. The greatest acceleration value corresponds to speeds close to the maximum. It is recommended to use a Geneva cross with curvilinear slots (of constant width) instead of straight ones. The calculation of the mechanism kinematics is given. The curvilinear slots change the law of rotation of the spindle drum and reduce the values of speeds and accelerations during braking. Dynamic loads can be reduced by using

Card 1/2

ORLIKOV, M.L.

PHASE I BOOK DISCUSSION

2(5)
 Razumevaniye avtomaticheskogo upravleniya v mashinostroyenii. [General study] (Mechanical Engineering Administration) Preprints of the 2nd Kiyev Scientific and Technical Conference devoted to problems of automation in machine manufacturing. Collection of Articles. Moscow, Mashgiz, 1959. 286 p. 6,000 copies printed.
 Organizing Agency: Mashinostroyeniye Gosplan (Scientific Services, Mashgiz); V.V. Serjogin, Moscow; Editorial Board: M.L. Orlikov, S.M. Zamiatovich (Moscow, Mashgiz); M.L. Orlikov, L.N. Pogorelov, V.M. Shapovalov (Moscow, Mashgiz); and G.L. Shurshakov.
 Remarks: This book is intended for engineering and technical personnel in machine and instrument manufacturing plants and scientific research institutes.

Contents: This book contains reports made by workers of machine and instrument manufacturing plants, scientific research institutes, and educational institutions at the 2nd Kiyev Scientific and Technical Conference devoted to problems of automation in machine manufacturing. The book contains reports from a conference on automation in machine manufacturing held by the Ministry of Machine Manufacturing Industry (Scientific and Technical Administration of the Ministry of Machine Manufacturing Industry) and the Scientific Administration of the VPO Directorate (Scientific and Technical Administration of the Instrument Manufacturing Industry). These reports deal with the current problems encountered in scientific and technical research, technological development, and progressive practices in machine manufacturing and instrument making. The authors include V.S. Yermolov, V.I. Yermolov, V.I. Meershalov, M.G. Rosenzlyd, and M.L. Orlikov. The book is arranged in two parts. There are no references.

Selection of Laws of Motion and Drive Diagrams of the Working Elements of Automatic Machines (S.M. Orlikov) 58
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 Improving the Operational Capabilities of the Clamping Mechanism on Automatic Lathes (A.Ye. Lypta) 87
 Automatic Tooling Setup on Automatic and Semi-automatic Lathes (M.P. Bondar) 97
 Some Problems in the Operation of Automatic Lathes for Manufacturing Bolts and Nuts (M.L. Orlikov) 104
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ORLIKOV, M L

25(7)

PHASE I BOOK EXPLOITATION

SOV/3072

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

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

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

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

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

Card 1/6

С.Р.ЛИКОВ, 1971

11

NOV/5580

Automation of Cold [Metal] Stamping Production

COVERAGE: The collection contains reports delivered at the Kiev Scientific and Technical Conference by workers of machine and instrument plants, design organizations, and scientific research and educational institutes. The Conference was sponsored by the Kievskoye obshchestvo pravleniye Mashino-tekhnicheskoye obshchestvo khimicheskoye obshchestvo (Kiev Oblast Administration of the Scientific and Technical Society of the Machine-Building Industry) and by the Ukrainian republicanskiye pravleniye Mashino-tekhnicheskoye obshchestvo (Ukrainian Republic of the Scientific and Technical Society of the Machine-Building Industry). The purpose of the Conference was to discuss the achievements and practical experience (especially at the Gor'kiy Automobile Plant, the Voznezhskiy and Lomozhskiy factories) in the automation of machine production. The Conference also served to acquaint a wide number of machine and instrument builders with the present state of automation in these fields and with the prospects for its further development. Papers dealing with experience in the design and operation of automatic devices, presses, and automatic production lines used in stamping production were discussed. 35 personalities are mentioned. References accompany most of the articles.

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Foreword

Card-2/5

FRAME I BOOK EXPLANATION NOV/5580

Golubev, T.M., Doctor of Technical Sciences, Professor, and I.P. Paryshchuk, Candidate of Technical Science, Docent, eds.

Avtomatizatsiya khimicheskoye obshchestvo proizvodstva (Automation of Cold [Metal] Stamping Production) Kiev, Mashgiz, 1961. 282 p. 6,000 copies printed.

Sponsorship Agency: Goskharvestvennyy nauchno-tekhnicheskoye ministerstvo Ukrainy (State Scientific and Technical Information Machine-Building Industry Administration of the Ukrainian Republic). Kievskoye obshchestvo pravleniye Mashino-tekhnicheskoye obshchestvo khimicheskoye obshchestvo (Kiev Oblast Administration of the Scientific and Technical Society of the Machine-Building Industry).

Ed.: M.S. Soroka; Tech. Ed.: M.S. Gornostaypal'skiy; Chief Ed.: (Southern Dept. Mashgiz): V.K. Serdyuk, Engineer.

REMARKS: This collection of articles is intended for workers at machine and instrument plants and scientific research and design institutes.

Card-3/4

Automation of Cold [Metal] Stamping Production	SOV/5580
Miropol'skiy, Yu. A. Classification and Selection of the Arrangement of Cam Mechanisms for Automatic Die-Forming Machines	206
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ORLIKOV, Mikhail Lvovich; KOZHEVNIKOV, S.N., retsenzent; KREMENSHTEYN,
L.I., kand. tekhn.nauk, dots., otv. red.; CHISTYAKOVA, L.G.,
inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Designing mechanisms for automatic machine tools]Proektirovanie
mekhanizmov stankov-avtomatov. Moskva, Mashgiz, 1962. 247 p.
(MIRA 16:2)

1.Chlen-korrespondent Akademii nauk Ukr.SSR (for Kozhevnikov).
(Machinery, Automatic—Design and construction)

ORLIKOV, M.L., kand.tekhn.nauk, dotsent

Improving the design of turning and fixing mechanisms of spindle
drums for automatic and semiautomatic lathes. Izv.vys.uchev.zav.;
mashinostr. no.2:195-202 '62. (MIRA 15:5)

1. Kiyevskiy politekhnicheskij institut.
(Lathes--Attachments)

S/142/63/006/001/003/015
E192/E382

AUTHORS: Kononov, B.N. and Orlikovskiy, A.A.

TITLE: Use of tunnel diodes in high-speed information-storage devices

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika, v. 6, no. 1, 1963, 33 - 44

TEXT: A storage cell with a tunnel diode operating on the principle of current control is shown in Fig. 1a and its operating conditions are represented in Fig. 1b. The system has two stable states, A and B. The load consists of two resistances, R_x and R_y , each carrying half the current. Such a cell can be used in an x-y matrix. The simplest system of matrix-type storage is a "three-dimensional" storage where the diode is provided with three resistances. Two of these determine the coordinate currents in the planes x-y, while the third defines the order-plane current. The processing of the information is effected by coordinate currents, while the order-plane current is used only for recording "zero". Storage cells of this type are subject to interference from neighboring cells and it is generally necessary
Card 1/4

Use of tunnel diodes

S/142/63/006/001/005/015
E192/E382

to protect them by limiting diodes having a reverse conduction threshold of the order of 100 mV. Another system of storage is available - the so-called "Z-type", where selection of the position for writing in the code is effected by a single control current I_z , which is applied to selected cells. The recording and regeneration of information is carried out by applying the current of a given order plane directly to the storage cells. The principle of designing tunnel-diode storage cells in such a way that the information is not erased during read-out is based on a diode with two regions of differing slopes. The first extends from the minimum voltage of about 250 - 300 mV to about 440 mV and the second from 440 - 460 mV. Two practically identical segments on the current axis correspond to these substantially different voltage segments. Because of this, the operating point \bar{I} can be chosen in such a way that during the reading, the interference from a semi-excited cell is much smaller than the pulse reading "1". The operating speed of the storage cells based on the diode operating in the Z-system is evaluated. Their operating speeds are roughly equal to those of x-y systems. It is shown that the recording

Card 2/4

Use of tunnel diodes

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time is equal to $(2.68 \text{ to } 5.28) \rho_0 C$, where ρ_0 is the absolute value of the mean negative resistance of the diode and C is its capacitance. The reading times vary between $2.4 \rho_0 C$ and $12.2 \rho_0 C$.

Thus, for Soviet-made diodes of n-Ge with a maximum current of 3 mA and time constants $\rho_0 C = 10 \text{ nps}$, the total writing and reading time is approximately 100 nps. The total time is roughly 3 nps for diodes made of gallium arsenide. The diodes were also investigated experimentally. There are 7 figures and 4 tables.

ASSOCIATION: Kafedra elektroniki Moskovskogo inzhenerno-fizicheskogo instituta (Department of Electronics of Moscow Engineering Physics Institute)

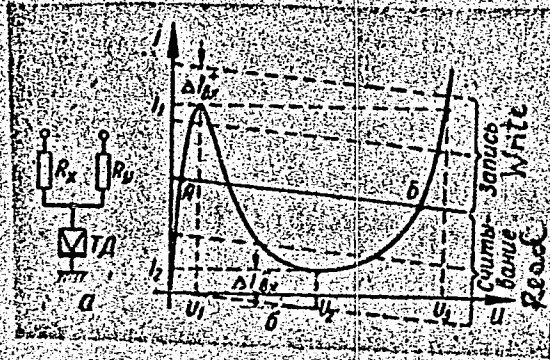
SUBMITTED: August 14, 1962

Card 3/4

Use of tunnel diodes

S/142/63/006/001/003/015
E192/E382

Fig. 1:



Card 4/4

L 55228-65 EWT(d)/EED-2/EWP(1) ~~P-4/Pc-4/Pk-4~~ LJP(c) BB/GG

28
BT/

ACCESSION NR: AT5004895 S/2657/64/000/012/0176/0188
AUTHOR: Orlikovskiy, A. A. 621.374.325 - 681.142.65

TITLE: Tunnel diode high-speed information storage

SOURCE: Poluprovodnikovyye pribory i ikh primeneniye; sbornik statey, no. 12, 1964, 176-188

TOPIC TAGS: information storage, high speed storage, tunnel diode storage

ABSTRACT: A short review of the application of tunnel diodes to high-speed computer storage based on Western sources is submitted. Choice of the storage-device structure, volatile storages, and nonvolatile storages is covered. It is inferred that the best combination of the storage capacity and high speed can be achieved in word-type devices having an additional nonlinear element in each storage cell. Very high speeds at large capacities are possible only with solid-state circuits. Orig. art. has: 5 figures and 2 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: DP, EC

NO REF SOV: 002

OTHER: 022

Card 1/1

ORLIKOWSKA, C.

Benedykt Dybowski, the first lecturer in Poland on the theory of evolution. p. 41.

WSZECHSWIAT. (Polskie Towarzystwo Prsyrodnikow im. Kopernika)
Warszawa. No. 2, Feb. 1959
Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, No. 6, June 1959
Uncl.

ORLIŃSKA, C.

The development of Edward Strassburger's ideas concerning the problem of graft hybrids; years 1884-1907. p. 125

KOZMOŚĆ, SERIA A: BIOLOGIA (Polskie Towarzystwo Przemysłowe im. Kopernika) Warszawa, Vol. 8, no. 2, 1959. *PLANS*

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ORLIKOWSKA, Celestyna, dr

The role of the Main College in the education of Polish biologists and popularizers of natural sciences; on the 100th anniversary of its founding. Problemy 19 no.11:811-813 '62.

ORLIKOWSKA, C.

Edward Strasburger; 50th anniversary of his death; notes on his activities connected with his birthplace. Wiadom botan 7 3-9 '63.

ORLIKOWSKA, Celestyna (Gdansk)

Julian Ochowicz, Feb. 23, 1856-May 1, 1917, ~~alumnus~~ of the
Mathematics and Physics Faculty of the Warsaw Main School.
Wszeczwiat no.10:239-242 0 '63.

ORLIKOWSKA, C.

Complement to the article by C. Orlikowska on the occasion of the
50th anniversary of the death of Edward Strasburger. *Wiadom. botan.*
3 no.1:93-94 1962.

ORLIKOWSKA, W.

New methods of treatment of some chronic forms of rheumatic diseases. Polski tygod. lek. 6 no.20:647-654 14 May 1951.
(CJML 21:1)

1. Of the National Institute of Rheumatology (Rector -- Prof. E. Reicher, M.D.).

JOCHWEDS, Benjamin; ORLIKOWSKA, Wladyslawa

Antagonistic action of small doses of glucocorticosteroids & mineralocorticosteroids in certain cases of Addison's disease. Polski tygod. lek. 13 no.32:1231-1234 11 Aug 58.

1. (Z III Kliniki Chorob Wewn. A. M. w Warszawie; kierownik; prof. dr nauk med. Jakub Wegierko). Warszawa, Litewska 5.

(ADDISON'S DISEASE, ther.

cortisone with desoxycorticosterone glucoside, antag. eff. of small doses (Pol))

(CORTISONE, ther. use

Addison's dis., with desoxycorticosterone glucoside, antag. eff. of small doses (Pol))

(DESOXYCORTICOSTERONE, related cpds.

desoxycorticosterone glucoside ther. of Addison's dis., with cortisone, antag. eff. of small doses (Pol))

JOCHWEIS, Benjamin; ORLIKOWSKA, Wladyslaw

Simultaneous administration of insulin & rostinon. Polski tygod. lek.
13 no.35:1355-1357 1 Sept 58.

1. Z III Kliniki Chorob Wewnetrznych A. M. w Warszawie; kierownik: prof.
dr nauk med. J. Wegierko. Adres: Warszawa, ul. Litewska Nr 5.

(ANTIDIABETICS, ther. use
tolbutamide with insulin in highly insulin-resist. diabetes
(Pol))

(INSULIN, ther. use
diabetes, highly insulin-resist., with simultaneous tolbuta-
mide (Pol))

ORLIKOWSKA, Wladyslawa (Warszawa, ul. Oczki 6.)

Chroniosepsis pseudosepsis allergica or collagenosis. Polski tygod.
lek. 14 no.12:522-524 23 Mar 59.

1. Z III Kliniki Chorob Wewnętrznych Akademii Medycznej w Warszawie;
kierownik: prof. dr med. Jakub Wegierko.
(COLLAGEN DISEASES, case reports
(Pol))

ORLIKOWSKA, Wladyslawa

On the problem of tuberculous myocarditis. Polski tygod. lek. 14
no.28:1304-1306 13 July 59.

1. (Z III Klinika Chorob Wewnetrznych Akademii Medycznej w Warszawie:
kierownik: prof. dr med. J. Wegierko.
(TUBERCULOSIS, CARDIOVASCULAR, case reports)

ORLIKOWSKA, Wladyslawa; HINTZ, Regina

Chroniosepsis, psejdosepsis allergica or the so-called collagenosis?
Polski tygod. lek. 14 no.38:1709-1712 21 Sept 59.

1. (Z III Kliniki Chorob Wewnetrznych A. M. w Warszawie: kierownik:
prof. dr nauk med. Jakub Wegierko).

(COLLAGEN DISEASE, case reports) (SEPTICEMIA, case reports)
(ALLERGY, case reports)

ORLIKOWSKA, Wladyslawa

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16 Nov 59.

1. (Z II Kliniki Chorob Wewnetrznych A. M. w Warszawie; kierownik: prof.
dr med. E. Kodejszko)
(PREGNANCY, compl.) (ADDISON'S DISEASE, in pregn.)

ORLIKOWSKA, Wladyslawa

A case of Addison's disease with increased urinary aldosterone excretion. Polski tygod. lek. 15 no.17:640-642 25 Ap. '60.

1. Z III Kliniki Chorob Wewnętrznych A.M. w Warszawie; kierownik
prof. dr. med. E.Kodejsko.
(ADDISON DISEASE urine)
(ALDOSTERONE urine)

ORLIKOWSKA, Wladyslawa; HINTZ, Regina

E. Weil's chronic erythroblastosis. Polski tygod. lek. 15 no.50:
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prof.dr med. E.Kodejszko.
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ORLIKOWSKA, Wladyslwa; ROGALA, Henryk

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prof. dr med. E.Kodejszko.
(CORTISONE ther)

ORLIKOWSKA, Wladyslawa

Urinary hyaluronidase in normal subjects and in certain pathological syndromes. Polski tygod. lek. 16 no.7:263-264 13 P '61.

1. Z II Kliniki Choroż Wewnętrznych A.M. w Warszawie; kierownik: prof. dr med. E. Kadojske.

(HYALURONIDASE urine)

ORLIKOWSKA, Wladyslawa

On the problem of the mechanism of action of some new diuretic drugs. Polski tygod. lek. 16 no.41:1582-1585 9 0 '61.

1. Z III Kliniki Chorob Wewnetrznych A.M. w Warszawie; kierownik:
prof. dr med. E.Kodejszko.

(DIURETICS pharmacol)

ORLIKOWSKA, Wladyslawa

Role of the antidiuretic hormone and hyaluronidase in the concentration of urine. I. Pol. tyg. lek. 17 no.19:741-745 7 My '62.

(HYALURONIDASE) (VASOPRESSIN) (URINE)

ORLIKOWSKA, Wladyslawa

Role of antidiuretic hormone and hyaluronidase in the mechanism of concentration of urine. II. Pol. tyg. lek. 17 no.21:824-828 21 My '62.

1. Z III Kliniki Chorob Wewnetrznych AM w Warszawie; kierownik: prof. E. Kodejszko.

(VASOPRESSIN) (HYALURONIDASE) (URINE)

ORLIKOWSKA, Wladyslawa; NISZCZYNSKA, Maria

Familial thyroid pathology. Endokr. pol. 14 no.5:421-429 '63.

1. III Klinika Chorob Wewnetrznych A.M. w Warszawie. Kierownik:
prof. dr E. Kodejsko.

HUNGARY

ORLIKOWSKA, W. Dr., Medical Academy of Warsaw, Third Internal Medicine
Clinic (Warsaw Crvosi Akademia, 111. Beiklinika, Professors: KIBALICKO, S.

"Hyaluronidase in Normal and Pathological Urines."

Budapest, Orvosi Hetilap, Vol 103, No 46, 18 Nov 62, page 2197.

Abstract: After a brief summary of references, the author reports his own experiments. 24 hour urine hyaluronidase values on normal individuals without restriction of water intake, under water diuresis and after dehydration are given. Values are also reported on diabetic, uremic and sclerotic patients. The study is incomplete, no conclusions are drawn.

[This paper is published, as part of an exchange program, from the Polski Tygodnik Lekarski.]

[Of 7 references about half are Western, half are Soviet-bloc]

*[Polish versions not given]

L
1/1

ORLIKOWSKA, Wandy Anna; NISZCZYŃSKA, Maria

Effect of "essential" unsaturated fatty acids on the level of cholesterol in diabetic patients. Pol. Hyg. iek. 1977, n. 11: 61-63. 3 p. Mo. 1977.

1. 2 III Kliniki Chorob Wewnętrznych Akademii Medycznej w Warszawie (kierownik: prof. dr med. F. Kocajszko).

Włodarczyk, Stanisław

Some problems in the theory of...
1973, 745-751

... Klinika...
Włodarczyk prof. dr. med. (specjalista...)

ORLIKOWSKA, Wladyslawa; SERZYSKO, Wieslaw; KWIATKOWSKA, Zofia; MALINOWSKI,
Edward; ROGALA, Henryk

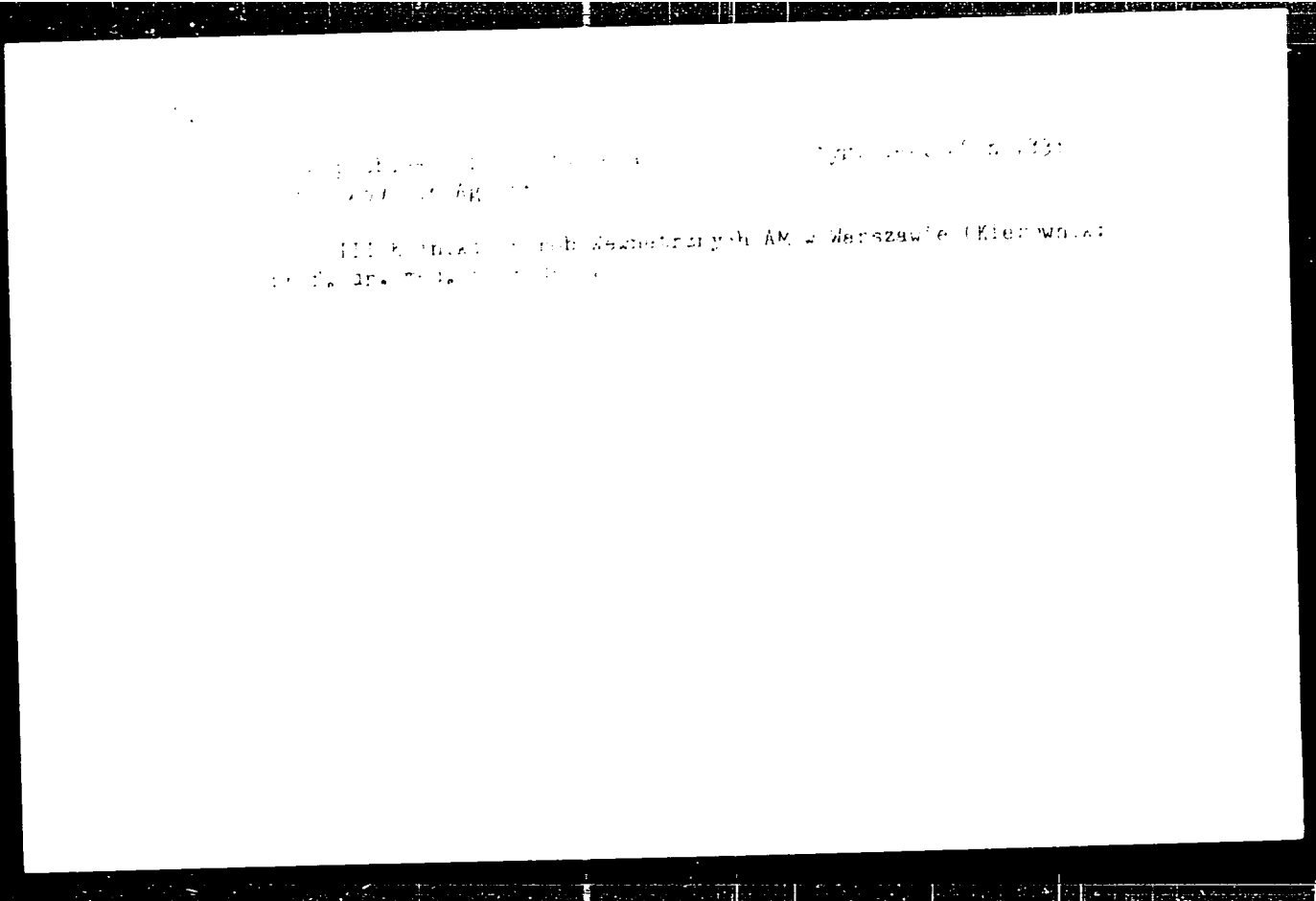
Effect of oxygen saturation and blood pH on erythrocytic
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1341-1348 '64

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Warszawie (Kierownik: prof. dr. med. E. Kodejszko).

ORLIKOWSKA, Wladyslawa; LAWECKI, January

Problem of so-called mucoviscidosis in adults. Pol. tyg. lek.
20 no.14:514-516 5 Ap '65.

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prof. dr. E. Kodejszko).



ORLIKOWSKA, Władysława

Non-esterified fatty acids in diabetes mellitus. *Wiśn. tyg.* 1964
20 no.40:1486-1488 40 '65.

1. Z III Kliniki Chorob Wewnętrznych AM w Warszawie (Kierownik:
prof. dr. E. Kodejsko .

L 55255-65 EWT(d)/EPA/EWT(m)/EWP(f)/EWP(v)/EWP(o)/EPP(n)-2/EPR/EWP(k)/EWP(h)/
EPA(bb)-2/EWP(l)/EWA(c)/T Pf-4/Paa-4/Ps-4 WJ

ACCESSION NR: AP5011305

UR/0122/65/000/004/003/0008
621.436.001.8

43
42
B

AUTHORS: Orlin, A. A. (Meritorious scientist of science and technology, Doctor of technical sciences, Professor); Vyrubov, D. N. (Doctor of technical sciences, Professor)

TITLE: Future development of piston and combined internal combustion engines

SOURCE: Vestnik mashinostroyeniya, no. 4, 1965, 3-8

TOPIC TAGS: internal combustion engine, piston engine, gas turbine, diesel engine

ABSTRACT: Analysis of future development of power plants indicates that internal combustion engines and, in particular, diesels (alone or mated with gas turbines), will play a significant role in the next few decades for applications of up to 25-30,000 hp. The authors discuss the most important areas requiring further

combustion processes; development of closed cycle engines (primarily for marine
Card 1/3

L 55255-65
ACCESSION NR: AP5011305

applications); investigation of new geometries, including cylinder number and
distribution, new compression geometries, etc; increasing engine power by super-
automatic engine control for

consumption is about 140 G/hp-hr and low speed (125-130 rpm) and low mep (10-12 kg/cm²) provides operation of up to 30 000 hours between major maintenance.

2) Medium speed engines: 400-700 rpm, 10-15 000 hp, cylinder diameter 350-500 mm, mep - 10-12 kg/cm², fuel flow 150-160 G/hp-hr. 3) High speed: 800-1500 rpm, 5000-7000 hp, 150-400 mm diameter, mep - 12-15 and higher, 150-160 G/hp-hr.

4) Lightweight turbine-piston diesels for transport (1500-2000 rpm and higher) are being developed by Rolls-Royce, G.M., and others. Although better performance is obtained by mechanically linking the piston engine and turbocharger, the optimum use of turbines and compressors with piston engines is still a matter for discussion. 5) High speed automobile and truck engines have been highly developed, particularly by Rolls-Royce, G.M., and Lycoming (G.M. "Continental": 700-750 hp, 2400 rpm, 146 mm piston); their multi-fuel operating capabilities make them very

Card 2/3

L 55255-65

ACCESSION NR: AP5011305

attractive. The gas turbine as a prime mover still has some limitations but may play an important part in some specific applications.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: PR

NO REF SOV: 003

OTHER: 002

engine B. J. 11111

Card 3/3

OHLIN, A.C.

Procesy vykhlopa i obraty v dvustupennykh dvigatelakh. Moskva, OIL Press, 1940. 28 p., illus. (Soviet Aviation, no. 3)

TITLE tr.: Exhaust processes in two-cycle engines.

3

SO: Aeronautical Sciences and Aviation in Soviet Union, Library of Congress, 1955

ORLIN, A. S. and others.

Dvigateli boevykh mashin. Dop. . . . v kachestve sbebnika dlia mashinostroit. vuzov. Moskva, Mashgiz, 1946+

v. 1 Rabochie protsessy v dvigateliakh. (Operations of engines)
510 p. diags.

At head of title: Moskovskoe vysshee tekhnicheskoe uchilishche im. Baumana.

Bibliography: v. 1., p. 507-508.

Engines of combat motor vehicles.

NN DLC: TJ755.07

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

OR LIN, A.

FA 12T24

USSR/Crankshafts
Engines, Automobile

Jun 1947

"Reducing Wear and Tear on the Crank Gear Assembly of the Ford 2GBT Motor," A. Orlin, Dr of Technical Sciences, A. D'yachkov, Candidate in Technical Sciences, 2 pp

"Avtomobil'" Vol XXV, No 6

Recommends use of improved oil pump which increases oil pressure. Includes diagrams.

12T24

ORLIN, A. S.

ORLIN, A. S. Two-cycle light engines. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1950. 318 p. (52-15970)

TJ785.07

ORLIN, A. S.

Dvukhtaknye legkie dvigateli. Moskva. Mashinostroyeniye, 1950. 110 p. illus.

light-duty two-stroke engines.

DLC: TJ785.07

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

ORLIN, A. S.

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"Two-cycle, light engines." A. S. Orlin Reviewed by N. S. Khanin, Avt trakt prom no 5, 1952

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

ORLIN, A., Prof.; VYRUBOV, D., Prof.

Gas and Oil Engines

DVS (Internal combustion engines). Tekh. molod. 21, No. 2, 1953.

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

ORLIN, A., redaktor.

[Internal combustion engines; collection of articles] Dvigateli
vnutrennego sgoraniia; sbornik statei. Moskva, Mashgis, 1954. 148 p.
(MLRA 7:12D)

Translation from: Referativnyy zhurnal Mekhanika 1958 Nr 1 p 62 (USSR) SOV 124-58-1 506

AUTHOR: Orlin, A. S.

TITLE: ~~Problems~~ of the Interchange of Gases in Two stroke Engines
(Problemy protsessov gazoobmena v dvukhtaktnykh dvigateleyakh)

PERIODICAL: V sb. : Povysheniye moshchnosti dvigateley s osplameneniyem
ot szhatiya. Moscow, Mashgiz, 1954 pp 64-80

ABSTRACT: The author examines ways for the improvement of the interchange of gases in two-stroke engines through the selection of optimal shapes and cross-sectional dimensions of the distribution organs. He denotes the inadequacy of extant analytical tools and experimental methods for the determination of the effectiveness of the gas interchange process. It is pointed out that the problem of the cross-sectional dimensions of the intake and exhaust organs could best be solved by setting up design relationships that would provide dimensions for the exhaust and scavenging elements which would afford optimal scavenging and filling ratios of the cylinder. In setting up the design relationships the author considers as most rational a method based on the use of the equations of a transient one-dimensional gas flow. Various schemes

Card 1/2

Problems of the Interchange of Gases in Two-stroke Engines

SOV 194 58 1 506

of gas distribution (valve-port, opposite piston side air and scap flow) are examined.

B. D. Zaloga

Card 2/2

ORLIN, A.S., redaktor.

Internal combustion engines. [Trudy] MVTU no.25:3-147 '54.
(Gas and oil engines) (MLRA 7:10)

ORLIN, A.S.

Fuel distribution in two-stroke engines. [Trudy] MVTU no.25:5-19
'54. (MLRA 7:10)

(Gas and oil engines)

ORLIN, A.S., redaktor; PUL'MANOV, N.V., kandidat tekhnicheskikh nauk,
redaktor; 'ORGULIS, Yu.B., kandidat tekhnicheskikh nauk, retsenzent;
MATVEYEVA, Ye.N., tekhnicheskii redaktor.

[Calculating the working processes of internal combustion
engines: a manual] Raschet rabochikh protsessov v dvigateliakh
vnutrennego sgoraniia; spravocnoe posobie. Moskva, Gos.nauchno
tekhnich.izd-vo mashinostroit.lit-ry 1955. 122 p. (MLRA 8:11)
(Gas and oil engines)

ORLIN, A.S., doktor tekhnicheskikh nauk; VYRUBOV, D.N., doktor tekhnicheskikh nauk.

Brief review of the activities of the Department of Internal Combustion Engines, Moscow Technical College covering the period 1906-1954. [Trudy] MVTU no.35:7-12 '55. (MIRA 9:7)
(Gas and oil engines)

ORLIN, A.S., doktor tekhnicheskikh nauk.

Gas exchange calculations of two-stroke engines and the development
of experimental design. [Trudy] MVTU no.35:13-30 '55. (MIRA 9:7)
(Gas and oil engines)

ORLIN, A.S., doktor tekhnicheskikh nauk; KRUGLOV, M.G., kandudat tekhnicheskikh nauk; MIZERNYUK, G.E., kandidat tekhnicheskikh nauk.

Methods of investigating gas exchange processes in two-stroke engines.
[Trudy] MVTU no.35:31-39 '55. (MIRA 9:7)
(Gas and oil engines)

ORLIN, A.S., doktor tekhnicheskikh nauk; KRUGLOV, M.G., kandidat tekhnicheskikh nauk; MIZERNYUK, G.N., kandidat tekhnicheskikh nauk.

Indicator diagrams for compression-ignition two-stroke engines having variable parameters during admission and exhaust. [Trudy] MVTU no. 35:40-45 '55.
(Indicators for gas and oil engines) (MIRA 9:7)

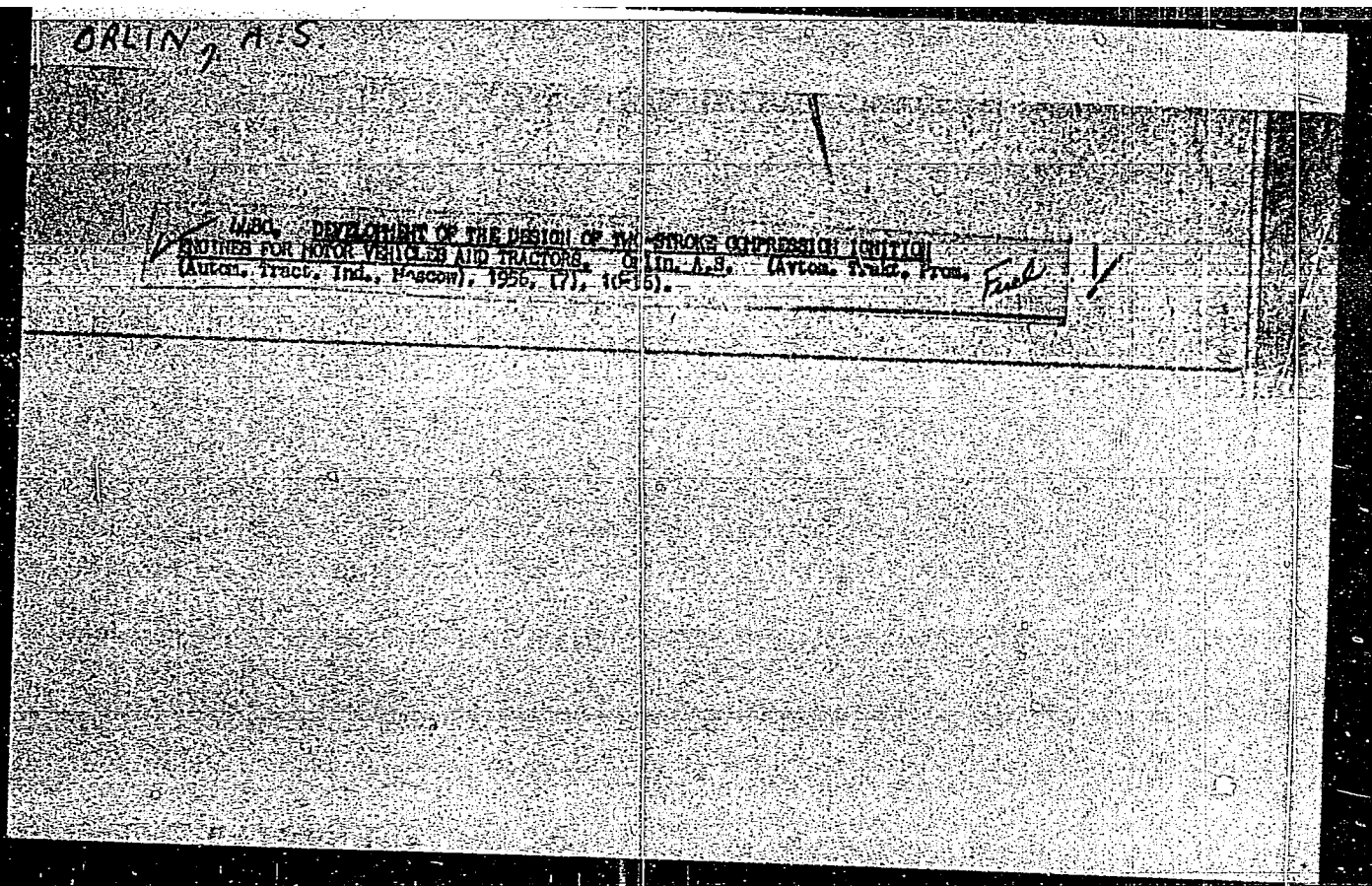
ORLIN, A.S., doktor tekhnicheskikh nauk.

Connecting rod-blade design for high-speed engines. [Trudy] MVTU
no.35:202-206 '55. (MIRA 9:7)
(Gas and oil engines--Design)

ORLIN, A S , ED.

N/5
000.5
.02

DVIGATELI VOPREYENOST' S'YEMANIYA (INTERNAL COMMUNICATIONS DEVICES) N. DRYA, M. DRYA,
1955.
270 P. ILLUS., DIAGRS., TABLES.



ORLIN, A.S., zasluzhennyy deyatel' nauki i tekhniki, laureat Stalinskoy
~~Premii~~, doktor tekhnicheskikh nauk.

Development of the design of two-cycle internal combustion
engines of the tractor type. Avt. i trakt. prom. no.7:10-17
J1 '56. (MLRA 9:10)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni
Baumana.

(Automobiles--Engines)

ORLIN, A.S., zasluzhennyy deyatel'nauki i tekhniki, professor.

Investigating the gas exchange in two-cycle engines.
Energomashinostroenie no.9:13-14 S '56.

(MLRA 9:10)

(Gas and oil engines)

KRUGLOV, Mikhail Georgiyevich; OL'YAK, Valentin Dmitriyevich; ORLIN, A.S., professor, redaktor; MALASHKIN, O.M., inzhener, retsentsent; LEUTA, V.I., inshener, redaktor izdatel'stva; RUDENSKIY, Ya.V., tekhnicheskii redaktor

[Tractor engines] Traktornye dvigateli. Pod red. A.S.Orlina, Kiev, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 325 p.
(Tractors--Engines) (MLRA 10:1)

PHASE I BOOK EXPLOITATION

326

Orlin, Andrey Sergeyevich; Vyrubov, Dmitriy Nikolayevich, Kalish, German Georgiyevich; Kruglov, Mikhail Georgiyevich; Leonov, Oleg Borisovich, Lebedev, Sergey Yevgen'yevich; Librovich, Bronislav Genrikhovich; Chursin, Mikhail Mikhailovich

Dvigateli vnutrennego sgoraniya. t.1: Rabochiye protsessy v dvigatelyakh i ikh agregatakh (Internal Combustion Engines. v. 1: Working Processes in Engines and Their Units) 2d ed., rev. and enl. Moscow, Mashgiz, 1957. 396 p.

Ed.: (title page): Orlin, A.S , Professor; Reviewer: Mel'kumov, T.M.; Ed. (inside book): Yegorkina, L.I., Engineer; Tech. Ed.: Tikhonov, A.Ya.; Managing Ed. for Literature on Automobile, Tractor and Agricultural Machine-building (Mashgiz): Bauman, I.M.

PURPOSE: This book is written as a textbook for students of institutions of higher learning specializing in internal combustion engines, automobiles, tractors, marine engines and locomotives.

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Internal Combustion Engines. v.1: Working Processes (Cont.) 326

COVERAGE: The authors give a brief historical survey of internal combustion engine development in the USSR and mentions the names of the principal designers and engine types built from 1901 to the present. Theoretical bases of contemporary engine cycles, combustion, intake, supercharging processes, fuel supply and engine control are discussed. The influences of the operational and design factors on the work of the engine are analyzed. Problems of power, efficiency, carburetion, transportation engine characteristics, and the bases of mixture formation in compression ignition engines and gas engines are discussed.

This book is a revised and enlarged edition of Dvigateli vnutrennego sgoraniya (Internal Combustion engines) Vol. I (Mashgiz, 1951). Particularly extensive revisions were made on Chapters III, V and IX. Chapters IV and VII have been rewritten. Chapters I and VII were written by Orlin, A.S.; Chapters II and IV by Vyrubov, D.N.; Chapter III by Vyrubov, D.N. and Leonov, O.B.; Chapter V by Vyrubov, D.N. (Sections 1-7),

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