

RYZHONKOV, D. I., CAND TECH SCI, "KINETICS OF ^{the} HIGH -
TEMPERATURE REDUCTION OF FERRIC OXIDES WITH SOLID CARBON."
MOSCOW, 1961. (ACAD SCI USSR, INST OF METALLURGY IM A.A.
BAYKOV). (KL, 3-61, 219).

RYZHONKOV, P.

A merited award. Kinomekhanik no.2:9-10 F'55. (MLRA 8:3)

1. Inspektor Stalinskogo sel'skogo rayotdela kul'tury Krasnodarskogo kraja.
(Cherevatyi, Anatolii Andreevich)

ACC NR: AP6036150

SOURCE CODE: UR/0018/66/000/011/0059/0061

AUTHOR: Ryzhonok, B. (Major; Guards)

ORG: none

TITLE: Experiment in teaching during sleep

SOURCE: Voyenny vestnik, no. 11, 1966, 59-61

TOPIC TAGS: learning mechanism, teaching machine, *PSYCHOLOGY*

ABSTRACT: The acquisition, retention, and utilization of knowledge gained during sleep by a group of communications soldiers was studied. Prior to the experiment, the soldiers learned seven telegraphic sounds, and they were then told about the new method of learning during sleep. They listened to the taped text of the lesson before going to bed and were expecting to hear the telegraphic sounds while asleep. The first learning period was conducted between 1 and 1:45 and the second was from 5 to 6:30 AM. Each sound group was repeated for 3-5 minutes, and a total of 9 characters were played back during each session. Experiments showed that from 1:00 to 2:00 AM was the most favorable time for playback, with no cases of waking during the playback time. During the day the material was repeated for better retention. Experiments have yielded certain promising results, with the learning ability of the group increasing by 15 to 20%. On the basis of this study the following conclusions were made: This method is applicable to the teaching of large groups.

Card 1/2

ACC NR: AP6036150

and the degree of retention depends on the frequency of the teaching sessions held during sleep.

SUB CODE: 05, 14/ SUBM DATE: none/

Card - 2/2

ZHDANOV, V.; KHRISTOV, L.; MURAV'YEV, M.; RYZHOV, A.; VASHKOV, V.; FEDOSOVA, A.
POGODINA, L.; KLECHETOVA, A.; SUBBOTIN, A.; ZAKHAROVA, Ye.; GANDEL'S-
MAN, B.; SAZONOVA, N.; ZEVAKINA, I.; KUDRINSKIY, I.; MISKAROV, D.;
KHANENYA, F.

Professor A.N.Tregubov; obituary. Gig. i san. 21 no.10:63 0 '56.
(MLRA 9:11)

(TREGUBOV, ALEKSANDR NIKOLAEVICH, 1888-1956)

Can you open it without opening? Izobr.i rats. no.12:26 D '59.
(MIRA 13:8)

1. Nachal'nik Byuro sodeystviya rationalizatsii i izobretatel'stvu
zavoda "Karbolit."

(Vacuum apparatus)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446530001-7
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446530001-7"

RYZHOV, A.A.

[Tularemia; materials on organization and methodology] Tuliare-
mia organizatsionnometodicheskie materialy pod red. A.A.Ryzhova
[i dr.], Moskva, Medgiz, 1954. (MIRA 8:1)
(Tularemia)

KARASEVA, A.N.; MAKAROV, A.G.; KARKLINA, R.A.; RYZHOV, A.A., redaktor;
MIKHEL'SON, G.A., redaktor.

[Book of drawings on disinfection chambers] Al'bom dezinfektsion-
nykh kamer. Pod red. A.A.Ryzhova, G.A.Mikhel'sona. Moskva, Gos.
izd-vo med. lit-ry, 1954. 82 p. (MLRA 7:?)
(Disinfection and disinfectants)

GANDEL'SMAN, Berta Izrailevna, dotsent; RYZHOV, Anatolii Alekseyevich;
ZHUKOV, G.I., redaktor; BEL'CHIKOVA, YU.S., tekhnicheskiy redaktor

[Organization of disinfection in the U.S.S.R.] Organizatsiia desin-
feksionnogo dela v SSSR. Moskva, Gos. izd-vo med. lit-ry, 1956 94 p.
(Biblioteka vracha-organizatora. Lektsii po organizatsii zdavookhra-
neniia dlia vrachei. Organizatsiia sanitarno-epidemiologicheskogo dela
v SSSR, lektsiia 5) (MLRA 9:7)

(DISINFECTION AND DISINFECTANTS)

USSR/Microbiology - Microbes Pathogenic in Man and Animals.

F.

Abs Jour : Ref Zhur - Biol., No 15, 1958, 67272

Author : Gandel'sman, B.I., Ryzhov, A.A., Khudadov, G.D.

Inst : Central Scientific Research Disinfection Institute.

Title : An Analysis of the Functioning of Disinfection Stations
as Concerns the Struggle with and Prophylaxis of Infec-
tious Diseases.

Orig Pub : Tr. Tsentr. n.-i. dezinfekts. in-ta, 1957, No 10, 311-
319.

Abstract : No abstract.

Card 1/1

VOZNESENSKIY, Yevgeniy Pavlovich; BROVCHENKO, Ignatij Savel'yevich;
Prinimal uchastiye TIMONIN, M.G.; MARDER, I.M., retsenzent;
RYZHOV, A.D., retsenzent; ABELTIN'SH, A.Ya., retsenzent;
AKIMOVA, L.D., red.; FECHENKINA, O.P., tekhn. red.

[Accounting in food industry enterprises] Bukhgalterskii
uchet na predpriiatiakh pishchevoi promyshlennosti. Mo-
skva, Pishchepromizdat, 1963. 342 p. (MIRA 17:2)

RYZHOV, A.F.; SAL'NIKOVA, A.F.; YEVGRAFOVA, Ye.

We are raising the qualifications of specialists. Zashch.rast.ot
vred.i bol. 7 no.6:59 Je '62. (MIRA 15:12)
(Velikiye Luki--Plants, Protection of--Study and teaching)
(Moldavia--Plants, Protection of--Study and teaching)

RYZHOV, A. F.

" The Possibility of Improving Corn in Chkalovskaya Oblast and the Basic Agrotechnical Methods for Its Cultivation." Cand Agr Sci, Saratov Agricultural Inst, Min Higher Education USSR, Saratov, 1955. (KL, No 10, Mar 55)

SO: Sum No. 670, 29 Sep 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

MERKIN, I.KH.; RYZHOV, A.I.

Equipment for sawing grooves in blanks for bent and sawed-through
parts. Der. prom. 7 no. 5:1-4 My '58. (MIRA 11:7)

1. Giprodrevprom.
(Woodworking machinery)

SARATIKOV, L.S.; GOLSHINA, E.I.; PRISHCHER, T.F.; RYZHOV, A.I.; SHUSTOVA, T.I.

Pharmacological properties of benzapyrine. Farm. i toks. 29 no.3:294-
298 My-66 '65. (MIRA 18:8)

1. Tomskiy meditsinskiy institut.

MOSKALEVA, L.A., inzh.; RYZHOV, A.I., inzh.; STEPANOV, S.M., inzh.;
TIMOFEYEV, V.A., inzh.; KHOKHLOV, V.P., inzh.

Project for the over-all mechnization and automatization of furni-
ture manufacture at the Moscow Furniture Assembly Combine No.2.
Der.prom. 9 no.10:3-6 0 '60. (MIRA 13:10)

(Moscow-Furniture industry) (Assembly-line methods)

RYZHOV, A. I., CAND MED SCI, "MORPHOLOGY OF THE NEURAL
APPARATUS OF THE DIGESTIVE TRACT OF GUINEA PIGS UNDER IRRADIATION FROM A BETATRON OF 25 MEV." NOVOSIBIRSK, 1961.
(NOVOSIBIRSK STATE MED INST). (KL-DV, 11-61, 229).

МИЗЛОВ, А.Л. , МАРЬЯ, А.Н.

"Methods for Making a Special Sanitary Inspection of Open
Bodies of Water Contaminated by Radioactive Substances". p. 46

Trudy Vsesoyuznoy Konferentsii po Meditsinskoy Radiologii
(Voprosy Gigeny i Dozimetrii) Medgiz, 1957, Moscow Russian, UR.

Proceedings of the All-Union Conference on Medical Radiology
(Hygienic and Dosimetric Problems.)

BIRYUKOV, V.A.; LEBEDENKO, M.M.; RYZHOV, A.M.; BLOKHINTSEV, D.I.,
nauchnyy red.

[Joint Institute for Nuclear Studies] Ob"edinennyi institut
iadernykh issledovaniy. Moskva, Izd-vo Glav.upr. po ispol'zo-
vaniyu atomnoi energii pri Sovete Ministrov SSSR, 1960. 114 p.
(MIRA 13:12)

1. Chlen-korrespondent AN SSSR (for Blokhintsev).
(Dubna--Nuclear research)

PHASE I BOOK EXPLOITATION

SOW/5433

Biryukov, V.A., M.M. Lebedenko, and A.M. Ryzhev

Ob'yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)
Moscow, Atomizdat, 1960. 114 p. No. of copies printed not given.

No contributors mentioned.

PURPOSE: This book is intended both for the general reader and the specialist interested in nuclear physics research in the USSR.

COVERAGE: The book describes the organizational structure, facilities, and research program of the Joint Institute of Nuclear Research at Dubna. It was written by 3 members of the Institute and is profusely illustrated with photographs of participating members and visitors, laboratories, and equipment. It is pointed out that scientists from 12 countries are conducting research at the Institute. Mention is made of D.I. Blokhintsev, Corresponding Member of the AS USSR, who reviewed the book, and P. Zol'nikov and V. Shishkin, the Institute's staff photographers. A list of 371 works published by members of the Institute between 1956-1959 completes the book.

Card 1/2

Joint Institute of Nuclear Research

SOV/5433

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History of the Founding of the Joint Institute of Nuclear Research	9
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AVAILABLE: Library of Congress

Card 2/2

JA/rn/gmp
7-28-61

RYZHOV, A.M.

PHASE I BOOK EXPLOITATION SOV/4647

Dubna (Moscow Province) Ob'yedinennyy institut yadernykh issledovaniy

Ob'yedinennyy institut yadernykh issledovaniy v gorode Dubna; kratkaya spravka
(Joint Institute of Nuclear Research; Short Handbook) Berlin, Akademie-
Verlag, 1958. 33 p. No. of copies printed not given.

Compiler: Anatoliy Mikhaylovich Ryzhov.

PURPOSE: This booklet is intended for physicists and other scientific personnel
interested in current problems in nuclear physics.

COVERAGE: The booklet describes the organization of the Joint Institute of Nuclear
Research in Dubna and some of the problems currently under study there. The
leading personalities of the Institute's 5 laboratories (nuclear problems, high-
energies, theoretical physics, neutron physics, and nuclear reactions) are given.
The current officers of the Council of Plenipotentiaries of Participating Govern-
ments who direct the Institute are listed. There are 38 photos of personalities,
buildings, installations and equipment at the institute. There are no references.

Card 1/2

Joint Institute of Nuclear Research; Short Handbook

SOV/4647

TABLE OF CONTENTS (compiled from section headings):

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II. Laboratories of the Institute	
1. Laboratory of nuclear problems	11
2. Laboratory of high energies	11
3. Laboratory of theoretical physics	20
4. Laboratory of neutron physics	28
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AVAILABLE: Library of Congress

Card 2/2

JA/dwm/gmp
1-13-61

RYZHOV, A.N.

Fountain type air stream dryer "Vavas." Sakh. prom. 37 no.4:57
Ap '63. (MIRA 16:7)

1. Moskovskiy sovet narodnogo khozyaystva.
(Drying apparatus)

RYZHOV, A.N.

New types of sieve apparatus for starch factories. Sakh. prom. 33
no. 4:64 Ap '59. (MIRA 12:5)

1. Ryazanskiy krakhmalo-patochnyy trest.
(Starch industry—Equipment and supplies)
(Sieves)

RYZHOV, A. P., Veterinarian, Head

Head of the Department of Immunology, Serology Division, Inst. named after
I. N. Mechinkov.

"Treatment of abscesses with penicillin."
SO: Veterinariia 24(1), 1947, p. 35.

RYZHOV, A. P.

PA 67T76

USSR/Medicine - Horses, Diseases
Medicine - Typhus

Feb 1948

"The Treatment of Equine Exanthematous Typhus," A. P. Ryzhov, L. I. Mayorova, V. D. Nikitin, Veterinarians, Serum Dept, Inst imeni I. I. Mechnikov, 1 1/2 pp

"Veterin" No 2

Exanthematous typhus is curable disease. Penicillin has very effective local action, e.g., on boils, etc. However, there are no positive indications of its general therapeutic effect. Early diagnosis and treatment is of prime importance.

67T76

RYZHOV, A. P.

USSR/Medicine - Penicillin, Therapy
Medicine - Endometritis

Aug 48

"Treatment of Endometritis in Cats With Penicillin,"
A. P. Ryzhov, L. Mayorova, Vet Physicians, $\frac{1}{4}$ P

"Veterinariya" No 8 p. 24

Describes case in detail. Concludes that penicillin is effective against endometritis and can be injected intramuscularly for puerperal diseases in cats, dogs, and other small animals.

31/49T95

1. RYZHOV, A. P.; MAYOROVA, L. I.

Inst imeni I. I. Mechnikov

2. USSR (600)

4. Drugs

7. Liniments with a cod liver oil base, Veterinariia, 29, No. 12, 1952. p 39

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

RYZHOV, A. P.

320
11/11
8-17-54

Chemical Abst.
Vol. 48 No. 8
Apr. 25, 1954
Biological Chemistry

(2)

Treatment of the hoof and mouth disease by acids.
A. P. Ryzhov and I. I. Malozova. *Veterinariya* 30, No. 11,
57(1953).—Cure within 3-5 days is reported for cattle and
pigs infected with the hoof and mouth disease; it is ac-
complished by irrigation of the oral cavity, udders, and
hooves with 0.25-0.5% AcOH soln. G. M. Kosolapoff—

Inst-in. I. I. Mechnikov

FREYMAN, V.B.; ISEINGOROVA, N.S.; ~~KYZHON, A.E.~~; KOVCHIK, N.A.

Immunization methods and immunological and electrophoretic studies
on anti-influenza sera obtained from donkeys. Vak. i syv. no.1:132-
139 '63. (MIRA 18:8)

1. Moskovskiy institut vaktsin i sыворотok im. Mechnikova.

BYZOV, A.P.

"Rationalization of the Feeding of Horses Producing Therapeutic Sera." Cand
Vet Sci, Moscow Veterinary Acad, Min Higher Education USSR, Moscow, 1955.
(ML, No 14, Apr 55)

30: Sum.No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations
Defended at USSR Higher Educational Institutions (16).

TABLE I BOOK CHARACTERISTICS 001/1071

Radioelectronics primary 1.1th program; abnormal reactivity, 177-5
(semiconductor devices and their applications) collection of 145 printed not
dissertation, 145-10 "Soviet radio", 1960. 270 p. No. of copies printed not
known.
Bk. (table page): B. A. Petrov; M. (table book); I. M. Volkov; Tech. Sci.
A. A. Semakova; M. A. Korovin; M. A. Korovin (Sov. Sci.); I. A. Barinova,
I. G. Shpil'son, A. M. Boyda, B. I. Mal'eva (Sov. Sci.); Yu. A.
Semakova; Yu. I. Kozov, A. V. Krasilov, A. A. Mal'nevskiy, I. P. Khokhlov,
evskiy, and I. P. Pogodaev.

REMARKS: This collection of articles is intended for specialists working in the
field of semiconductor devices.
CONTENTS: The articles discuss basic transistor parameters, methods of measuring
them, and some problems in the use of transistor circuit diagrams. Two of the
articles describe the use of semiconductor diodes for precise amplification.
No personal files are included. References accompany 11 of the 12 articles.

LIST OF CONTENTS:

Nikol'skiy, V. D., N. A. Rabinovich, and Yu. A. Khokhlov. High-Frequency Bipolar Transistor with Stepped-Up Random Voltage on the Emitter	61
Semakova, M. A. and Yu. A. Khokhlov. Temperature Dependence of Some Frequency Parameters in Bipolar Transistors	83
Khokhlov, Yu. A. (abstract) Calculation of Maximum Permissible Pulse Power for Semiconductor Devices in Their Work Under Pulse Overload Conditions	95
Khokhlov, Yu. A., A. S. Spivak, and V. D. Mal'nevskiy. Transistor Noise Measurement Methods	107
Khokhlov, Yu. A. and A. S. Spivak. Measurement of Transistor Parameters under the Influence of Noise	119
Kozov, A. G. Practical Work of Transistors Used in the Electric-Current Control of Electric Machines	179
Khokhlov, Yu. A. Single-Cycle DC Voltage Transistorized Converters	206
Khokhlov, Yu. A. High-Speed Switching Circuits	233
Khokhlov, Yu. A., and V. G. Lygin. Junction-Transistor Frequency Response	254
Khokhlov, Yu. A. Transistorized Pulse-Width Equipment for Irrigating Systems	264

AVAILABLE: Library of Congress



30500
S/194/61/000/008/049/092
D201/D304

9,4310 (1139,1143,1159)

AUTHORS: Potryasay, V.F., Ryzhov, A.S. and Sutyagin, V.Ya.

TITLE: Transistor noise

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 8, 1961, 14, abstract 8 D98 (V sb. Poluprovod-
nik. pribory i ikh primeneniye, v. 5, M., Sov. radio,
1960, 107-158)

TEXT: It is shown that the noise factor F should be taken
as the basic factor determining the noise properties of transistor
amplifiers. Possibilities are considered of replacing the transis-
tor noise by a noisy four-pole of the equivalent transistor circuit,
having internal noise sources. The bloc-diagram is given for mea-
suring the noise parameters. Formulae are given for evaluating F
in the region of white noise and at HF from the equivalent circuit
of Giacoletto, containing 4 uncorrelated noise sources corresponding
to the following: Thermal noise of the ohmic base resistance; shot

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30500

S/194/61/000/008/049/092
D201/D304

Transistor noise

noise of d.c. and thermal currents through the emitter transition; the shot noise of the collector current component, due to the emitter minority carriers transgressed into the base; the shot noise of the thermal current passing through the collector transition. The circuit applies to the region of white noise. Examples are given of evaluation of F in the region of white and redundant noise and also at HF. A short exposition is given of the direct and modulation method and of the comparison method as used in measuring F . A detailed description is given of the arrangement for measuring the noise factor by the method of comparison of a noise generator with a sinewave generator in the frequency range 0.16-20 and 30 : 100 Mc/s. 14 references. [Abstracter's note: Complete translation]

KULIKOVSKIY, A.A.; POTRYASAY, V.F.; SUTYAGIN, V.Ya.; RYZHOV, A.S.

Terminology in the field of transistor electronics. Izv.vys.
ucheb.zav.; radiotekh. 2 no.3:378 My-Je '59. (MIRA 13:2)

1. Voenno-vozdushnaya inzhenernaya Akademiya im. Prof.N.Ye.
Zhukovskogo.

(Transistors--Terminology)

RYZHOV, B.M., kand.tekhn.nauk

Determining pressures in stages of a piston compressor in case of
gas delivery through piston valves. Izv.vys.ucheb.zav.; mashinostr.
no.4:43-58 '59. (MIRA 13:4)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana.
(Air compressors)

S/122/61/000/007/002/007
D209/D304

AUTHOR: Ryzhov, B.M., Candidate of Technical Sciences

TITLE: The problem of sealing reducing valves

PERIODICAL: Vestnik mashinostroyeniya, no. 7, 1961, 20 - 26

TEXT: The author investigates the characteristics of reducing valves, with special emphasis laid on high mains pressure application. The purpose of this investigation was to establish a criterion for the time elapsing between the opening of the valve and the start of the "leaking through" of the gas or, in other words, the difference in pressures corresponding to the fully opened and "leaking through" position of the valve. The author explains that when the sealing between the valve and valve seat breaks down, leaking of the gas will commence. This could be an unwanted characteristic of the valve and so the author carries out a detailed mathematical analysis of the problem. He deals with 3 different types of valves in order to illustrate the dependence of these crucial pressures

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S/122/61/000/007/002/007
D209/D304

The problem of sealing ...

on the mechanical structure and the dynamic characteristics of the valve. Pressures and forces relevant to the performance of the valve can be classed as a) the force developed in the spring by the assembly, b) the pressure varying from zero monometric pressure to the pressure required to just lift the valve off the seat, c) the variable pressure acting on the valve due to condensation, d) the pressure at which "leaking through" of the gas commences due to the increasing pressure, e) the pressure corresponding to the fully opened position of the valve, f) the required sealing force corresponding to (d). The author establishes various relationships for these pressures and the conclusions drawn establish a criterion for sound engineering design of reducing valves. The author discusses three different types of reducing valves a) direct acting valve, b) a direct acting valve strengthened by bellows, c) a two way valve. The author deduces equations for various working conditions of these valves and these equations are plotted on a graph. Each of the above mentioned pressures can be proved to be a function of the mains pressure. Thus all of them can be plot-

Card 2/3

The problem of sealing ...

S/122/61/000/007/002/007
D209/D304

ted on the same graph which according to the author proved to be very useful. Since the intersection of the various pressure lines gave specific results reference is made to the work of P.I. Kiselev (Ref. 1: Osnovy uplotneniy v armature vysokogo davleniya (Basic Theory of Condensation in High Pressure Devices) Gosenergoizdat, 1950), since it includes an experimental formula for calculating the "break down pressure", i.e. the start of the leaking, in terms of the physical dimensions and material characteristics of the valve. The author concludes that experiments carried out on the sealing properties of valves yielded a great deal of technical information which is directly applicable to present-day designs. There are 5 Soviet-bloc references.

Card 3/3

RYZHOV, B.M., kand.tekhn.nauk

Hermetic sealing of safety (reducing) valves. Vest.mash. 41 no.7:
20-26 JI '61. (MIRA 14:6)

(Sealing (Technology))

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R001446530001-7
CIA-RDP86-00513R001446530001-7"

RYZHOV, B.M., kand. tekhn. nauk

Study of the extremums of the equivalent of the cycle area of
single-stage piston compressors. Khim. mash. 3 no.3:21-26
My-Je '59. (MIRA 12:12)
(Compressors)

RYZHOV, "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446530001-7
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446530001-7"

Dissertation: "Construction of Aerodrome Oxygen Compressors and a Method for Calculating Their Efficiency." Cand Tech Sci, Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze, 7 Jun 54. Vechernyaya Moskva, Moscow, 28 May 54.

SO: SIM 284, 26 Nov 1954

MIGUKIN, A.T.; RYZHOV, B.M.

Electric powered pile plank extractor. Rats.i izobr.predl.v stroi
no.58:16-17 '53. (MLRA 7:2)
(Pile driving)

RYZHOV, B.M., kandidat tekhnicheskikh nauk.

Calculating the performance of single-stage piston compressors.
Trudy MAI no.74:75-106 '56. (MLRA 10:5)
(Compressors)

RYZHOV, Boris Mikhaylovich; POLIKOVSKIY, V.I., doktor tekhn. nauk,
retsensent; PUL'MANOV, N.V., kand.tekhn. nauk, red.;
VINOGRADSKAYA, S.I., red.izd-va; ROZHIN, V.P., tekhn. red.

[Airplane piston compressors] Aviatsionnye porshnevye kom-
pressory. Moskva, Oborongiz, 1963. 330 p. (MIRA 16:9)
(Airplanes--Pneumatic equipment)

FRENKEL', Yefim Borisovich; KOMOLOV, Vladimir Georgiyevich; FAYB, Semen Isakovich; SAVCHENKO, Vsevolod Viktorovich; GORBENKO, S.S., inzh., retsenzent; LISITSYN, L.V., inzh., retsenzent; RYZHOV, B.V., inzh., retsenzent; TSOKANOV, A.V., inzh., retsenzent; KLIMOV, V.F., kand.tekhn.nauk., red.; BOBROVA, Ye.N., tekhn.red.

[Factory repair of electric railway motors and auxiliary machinery] Zavodskii remont tiagovykh dvigatelei i vspomogatel'nykh mashin. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshchenia, 1961. 366 p.

(MIRA 14:12)

(Electric machinery--Maintenance and repair)
(Railroads--Electric equipment)

BABICHEV, Ye.A.; BUROVA, N.N.; GOLODKOVSKAYA, G.A.; DOBRUSKINA, I.A.;
KAGNER, M.N.; KONGPLEVA, V.I.; KRASILOVA, N.S.; LEONOV, G.P.;
MURZAYEVA, V.E.; PODRABINEK, R.A.; PRYAKHIN, A.I.; RYZHGV,
B.V.; SERGEYEV, Ye.M.; FEDOROV, T.O.; FIDELLI, I.F.; EPSHTEYN,
G.M.[deceased]; SHCHEKHURA, I.I., red.; GEORGIYEVA, G.I., tekhn.
red.

[Geology and engineering geology of the upper Amur Valley]Geo-
logicheskoe stroenie i inzhenerno-geologicheskaya kharakte-
ristika doliny Verkhnego Amura. Moskva, Izd-vo Mosk. univ.,
1962. 317 p. (MIRA 16:3)

(Amur Valley--Geology)
(Amur Valley--Engineering geology)

USSR/Engineering - Tools

Card 1/1 : Pub. 103 - 3/23

Authors : Ryzhov, E. V.

Title : ~~XXXXXXXXXXXXXXXXXXXX~~
: The decrease in size of cutting tools through wear

Periodical : Stan. i instr. 8, 12-13, Aug 1954

Abstract : The resistance to wear of cutting tools, made of T6OK6, T5K10, VK4, VK9, and VK11 alloys, was investigated. Data, indicating the cutting speeds and feeds is given, together with the configuration of cutters. Graphs; table.

Institution :

Submitted :

AID P - 4209

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 10/20

Author : Ryzhov, E. V.

Title : Accuracy of Machining by Boring Machines

Periodical : Stan. i instr., 1, 31-32, Ja 1956

Abstract : An [excessivel] need for adjustment and an oval or conic hole are results of deformation in the rigid system of the boring machine, worked part, and cutting tool. Some-time these errors reach large proportions. The author presents formulae for their calculation and possible correction. Four graphs, formulae and sketch.

Institution : None

Submitted : No date

Subject : USSR/Engineering

Card 1/1 Pub. 103 - 7/25

Author : Ryzhov, E. V.

Title : Determination of rigidity of boring machines

Periodical : Stan. i instr., 8, 20-23, Ag 1956

Abstract : The author presents the theory and formulae for calculation of rigidity and stability of headstocks and tables of horizontal boring machines. He refers to the works of I. Ya. Shtayerman Corresponding Member of the Academy of Sciences, Ukrainian SSR, and D. N. Reshetov, Prof., and to his own experience in this field. Several formulae, 3 drawings and 1 graph; 8 Russian references (1939-1955).

Institution : None

Submitted : No date

RYZHOV, E.V., kand.tekhn.nauk, dotsent

First All-Union Seminar on contact rigidity of elements of
the technological system" machine tool-attachement-cutting
tool-part." Vest. mashinostr. 44 no. 4:83-85 Ap '64.
(MIRA 17:5)

RYZHOV, E.V., kand.tekhn.nauk,dotsent

Supporting area of surfaces subjected to machining. Vest.
mashinostr. 44 no. 4:56-62 Ap '64. (MIRA 17:5)

RYZHOV, E.V., kand.tekhn.nauk, dotsent; VISHNYAKOV, F.A., kand.tekhn.nauk

Determination of the dimensional wear of cutting tools working
with heavy feeds. Vest.mashinostr. 43 no.9:69-70 S '63.
(MIRA 16:10)

RYZHOV, E. V., kand. tekhn. nauk, dotsent; VISHNYAKOV, P. A., kand.
tekhn. nauk

Temperature deformations of hard-alloy cutting tools. Vest.
mashinostr. 42 no.12:63-65 D '62. (MIRA 16:1)

(Metal-cutting tools)
(Thermal stresses)

RYZHOV, Eduard Vyacheslavovich, kand. tekhn. nauk; TARABASOV, N.D.,
doktor tekhn. nauk, prof., retsenzent; BYSTRITSKAYA, V.V.,
inzh., red.; EL'KIND, V.D., tekhn. red.

[Fundamentals of the design of machine-part joint surfaces
for contact rigidity] Osnovy rascheta stykovykh poverkhno-
stei detalei mashin na kontaktnuiu zhestkost'. Moskva,
Mashgiz, 1962. 141 p. (MIRA 15:11)
(Machinery--Design)

RYZHOV, E.V., kand.tekhn.nauk, dotsent; CHISTOP'YAN, A.F., inzh.

Gear milling with worm hobs having a positive cutting angle.
Vest.mash. 41 no.8:86-87 Ag '61. (MIRA 14:8)
(Gear cutting)

RYZHOV, E.V.

Attachment for milling the screw surface of worms with an irregular
pitch. Stan. i instr. 32 no.6:40-41 Je '61. (MIRA 14:6)
(Milling machines--Attachements)

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S/121/59/000/10/003/005

AUTHOR: Ryzhov, E.V.

TITLE: The Dimensional Wear of Cutting Tools¹⁴

PERIODICAL: Stanki i Instrument, 1959, No 10, pp 37 - 38

TEXT: The author states the results of investigations of the dimensional wear of cutting tools, equipped with hard-alloy bits, during the turning of 45 grade steel, heat-treated up to a hardness of $R_C = 30 \div 35$. The effects of the cutting conditions and tool geometry on the dimensional wear of the tool were investigated for various hard-alloy grades. Figure 1 shows how the dimensional wear of tools with hard-alloy bits of various grades depends on the cutting length. The best results as to durability of the bits were obtained with the hard-alloy grades T30K4, T15K6, T14K8, T5K10, VK8, VK6, and VK3. Figure 1 shows that the wear after 1,000 m falls within the limits of normal dulling. Figure 2 shows the effect of the cutting speed on the wear of the T30K4 grade hard alloy and demonstrates that, at a cutting speed of 85 m/min, the wear was at its lowest. At a cutting speed of 125 m/min it somewhat increases, while there is a sharp increase in wear at low cutting speeds

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The Dimensional Wear of Cutting Tools

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(30 m/min). The graphs in Figure 3 show the effects of feed, cutting depth and geometrical parameters (front angle and principal rear angle) on the magnitude of wear. It follows from the functions obtained that an increase in cutting depth from 0.25 to 1 mm, in feed from 0.1 to 0.4 mm/rev and of the rear angle on the principal cutting edge from 4 to 12° results in an intensive growth of wear. A variation of the front angle within the range of from -5 to 0° affects the magnitude of dimensional wear only to a small extent, while an increase of the same angle up to $+10^\circ$ results in an abrupt growth of wear. 4

One graph, 1 set of 2 graphs, 1 set of 4 graphs.

RYZHOV, E.V.; SPASIBENKO, Ye. I.

Effect of cutting conditions on the deformation of metal-cutting
tools. Stan. 1 instr. 32 no.4:26 Ap '61. (MIRA 14:3)
(Metal cutting)

RYZHOV, E.V., dots., kand.tekhn.nauk

Wear of cutting tools in machining cylinder sleeves. Trakt. 1
sel'khoz mash. no.12:34-35 D '58. (MIRA 11:12)
(Metal-cutting tools) (Mechanical wear)

SOV/122-59-4-20/28

AUTHOR: Ryzhov, E.V., Candidate of Technical Sciences, Docent

TITLE: Investigation of the Temperature Deformation of Cutting Tools (Issledovaniye temperaturnykh deformatsiy reztsov)

PERIODICAL: Vestnik Mashinostroyeniya, 1959, Nr 4, pp 73-75 (USSR)

ABSTRACT: Tests are reported wherein alloy cast iron of 230 Brinell hardness and containing 3% C; 1.27% Mn; 0.077% Cr; 0.17% Ni; 2.09% Si; 0.108% P, in the form of sleeves was machined with carbide and ceramic tipped tools. The sleeves of 160 mm diameter had grooves so separated that the time of continued cutting amounted to 1, 2, 3 min., etc. After each section, the tool holder was turned and the tool advanced to the micron dial gauge and left until complete cooling down. The cutting tool had zero front clearance angle and a top rake angle of 4°. A range of cutting speed, depths of cut and rates of speed was examined. The maximum temperature deformation is a power function of the cutting speed. The exponent is about 0.6 at speeds of 29 - 93 m/min. At higher speeds, the exponent increases to almost 1.0. With a sharp cutting edge (sharpening every few minutes) the

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SOV/122-59-4-20/28

Investigation of the Temperature Deformation of Cutting Tools

temperature extension can be reduced by about 25%. The extension is also a power function of the depth of cut. A typical exponent is 0.7. The same relationship for the rate of feed has a typical exponent of 0.9. Changing the tool geometry has a marginal effect. Carbides VK8 and VK3 were tested showing small differences. Ceramic tips, type TsM332, were tried at a depth of cut of 0.5 mm and a rate of feed of 0.1 mm/rev. At different cutting speeds, the changes in length did not exceed 12 microns, and so were substantially smaller than with the carbide tips. Typical exponents of the power function in ceramic tool cutting are 0.33 (for cutting speed); 0.43 (for depth of cut); and 0.02 (for rate of feed). To reduce the effect of temperature deformation on machining accuracy, it is advisable to work with wear resistant tool materials at large rates

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SOV/122-59-4-20/28

Investigation of the Temperature Deformation of Cutting Tools
of feed and depths of cut and optimum cutting speed.
There are 5 figures and 4 Soviet references.

Card 3/3

RYZHOV, E.V.
RYZHOV, E.V.

Dimensional wear of cutting tools. Stan. i instr. 28 no.12:24
D '57. (MIRA 10:12)

(Cutting tools)
(Mechanical wear)

8(0)

SOV/112-59-4-6901

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 70 (USSR)

AUTHOR: Aleksandrov, G. N., Ryzhov, G. M., and Shcherbachev, O. V.

TITLE: Simulating the AC Corona Characteristics by Lamp Schemes

PERIODICAL: Tr. Leningr. politekhnich. in-ta, 1958, Nr 195, pp 329-341

ABSTRACT: Several versions of lamp models representing the corona dynamic characteristic $Q = f(U)$ on the basis of a similar wire characteristic are analyzed. A 2-lamp model with two sources of opposing voltages, with a capacitor in series with one of the lamps, and with a capacitor and resistor in series with the other, is examined in detail. This model has the following peculiarities: (1) extinction of one lamp after the passage of the voltage maximum; (2) the voltage change, from the moment of that extinction to the moment of lighting up of the second lamp, exceeds $2U_c$ (where U_c is the critical corona voltage), the phenomenon similar to the corona on the line. Data is offered for calculating the above models.

N.N.T.

Card 1/1

**RYZHOV, I.; MEZHEVIKIN, V., mashinist kombayna; USOV, A., mashinist
kombayna.**

Using comines in mining steeply inclined coal seams. Mast. ugl. 3
no. 10:13-14 0 '54. (MLRA 7:12)

1. Nachal'nik uchastka shakhty im. Romyantseva kombinata
Stalinugol'.
(Coal-mining machinery)

OVGHARENKO, G.A., red.; SHTEYNBOK, B.I., red.; RYZHOV, I.D., red.;
CHUPROVA, Yu.S., red.; KAPRALOVA, A.A., tekhn.red.

[Industry of the R.S.F.S.R.; statistical collection]
Promyshlennost' RSFSR; statisticheskii sbornik. Moskva,
Gosstatizdat TsSU SSSR, 1961. 343 p.

(MIRA 14:12)

1. Russia (1917- R.S.F.S.R.) TSentral'noye statisticheskoye
upravleniye. 2. Zamestitel' nachal'nika TSentral'nogo sta-
tisticheskogo upravleniya pri Sovete Ministrov RSFSR (for
Ryzhov).

(Industrial statistics)

Ryzhov, I. I.

U S S R .

Production of a bonding material (slag-portland cement type) from a fusion of Grodno clay and chalk. I. I. Ryzhov. *Sbornik Nauch. Rabot. Belorus. Politekhn. Inst.* 1953, No. 4, 101-11. *Referat. Zhur., Khim.* 1954, No. 41043. — The slag was prepd. by fusing a mixt. of marly clays and loose chalk. Salt and dolomite were added to facilitate melting. The melt obtained at 1350° was granulated by pouring into cold water. The dried granules were finely ground and carefully mixed with 18, 20, and 25% portland cement. The resulting slag-portland cement was of the "200" and "250" grade. M. Hoshli.

MT

USSR/Chemical Technology. Chemical Products and Their Application -- Silicates.
Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 5229

Author: Ryzhov, I. I., Korzenko, G. I.

Institution: Belorussian Polytechnic Institute

Title: Rendering Harmless the Lime Inclusions in Brick ("Dutik") by a
Hydraulic Treatment

Original

Publication: Sb. nauch. rabot Beloruss. politekhn. in-t, 1956, No 55, 88-97

Abstract: There is proposed a mechanized method of hydraulic treatment of
bricks by immersion in water for a period of ≥ 10 -15 minutes.
Temperature of the bricks at the time of the immersion must not
exceed 30-40°. At 70-80° the bricks do not withstand the hydraulic
treatment and undergo complete disintegration.

RYZHOV, I.T.

Improving financial and economic operations of the industry. Bum.
prom. 31 no.9:26-27 S '56. (MLRA 9:11)

1. Nachal'nik finansovogo otdela Ministerstva.
(Paper industry--Accounting)

"On the Physico-Chemical Nature of Sand Crust (On Castings) and the Ways of Eliminating this kCrust by Producing a De-Oxidizing Atmosphere Between the Mold and the Metal, Casting in Vacuum, or Crystallization-Preventive Additions to Water Glass."

report presented at Scientific-Technical Session on Progressive Technology of Casting Molds, organized by the NTOMASHEROM of the Khar'kov Oblast', in Khar'kov, ' 14-16 Nov 1957.

Liteynoye Proizvoástvo, 1958, No. 4, pp. 28-30

RYZHOV

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446530001-7
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446530001-7

USSR/Medicine - Listerellosis Virus Diseases

May 53

"The Problem of the So-Called Atypical Form of Tick Encephalitis," Ye. N. Pavloskiy, A. I. Smirnov, A. N. Shapoval, K. P. Chagin, I. V. Ryzhov, Military Med Acad imeni S. M. Kirov

Zhur Mikro, Epid, i Immun, No 5, pp 41-46

Investigation of cases of infection with the so-called atypical tick encephalitis or 2-stage ("2-wave") meningoencephalitis showed that the disease in question is not transmitted by ticks and that it is actually listerellosis.

PA 253T12

Note see Case under RYZHOV, I G

RYZHOV, K., inzh.

Using mobile loading machines at the grain elevator of TSelinograd.
Muk.-elev. prom. 27 no.7:14 J1 '61. (MIRA 14:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov
yego pererabotki.

(TSelinograd—Grain-handling machinery)
(Loading and unloading)

RYZHOV, K.A., nauchnyy sotrudnik; MEN'SHENIN, A.I., inzh.

Loader for ear corn and the grain of various crops. Soob. i ref.
VNIIZ no.4:27-29 '61. (MIRA 16:5)

1. Konstruktorskoye byuro Vsesoyuznogo nauchno-issledovatel'skogo
instituta zerna i produktov' yego pererabotki (for Men'shenin).
(Grain) (Loading and unloading)

RYZHOV, K.I., inzh.; ZELENOV, V.Ye., inzh.

Ten kilovolt contact network for feeding gantry cranes.
Elek.sta. 31 no.5:28-31 My '60. (MIRA 13:8)
(Electric cranes)

RYZHOV, K.V., inzh.

At the First Moscow Watch Factory. Izobr. v SSSR 3 no.3:44-45 Mr
'58. (MIRA 11:3)

(Moscow--Clockmaking and watchmaking)

RYZHOV, L., kand. tekhn. nauk

Powerful pusher tugs for river transportation. Rech. transp.
22 no.5:18-21 My '63. (MIRA 16:8)

(Inland water transportation)
(Tugboats)

RYZHOV, L., kand.tekhn.nauk; MEYER, N., inzh.; PETLITSKIY, Yu., inzh.

Results of testing automatic linkages. Rech. transp. 20 no.5:18-
22 My '61. (MIRA 14:5)

(Towing)

BOGDANOV, B., konstruktor; VAGANOV, G., kand. tekhn. nauk; RYZHOV, L.,
kand. tekhn. nauk.

The semi-integrated barge train "Pervyi" with a 7500-ton carrying
capacity. Rech. transp. 23 no.1:20-22 Ja '64. (MIRA 18:11)

RYZHOV, L., kand. tekhn. nauk

Improving the maneuverability of barge trains being pushed. Rech.
transp. 20 no.9:25-27 S '61. (MIRA 14:9)
(Towing)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446530001-7
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R001446530001-7"

RYZHOV, L., kand.tekhn.nauk

Ring nozzle defects. Rech.transp. 19 no.9:12-15 S '60.

(MIRA 13:9)

(Steering gear)

RYZHOV, L., kand.tekhn.nauk

Some special aspects of handling ships equipped with ring
nozzles. Rech.transp. 19 no.7:46-47 J1 '60.

(MIRA 13:8)

(Ship handling) (Propellers)

TIKHONOV, N.V.: RYZHOV, L.K.

Possibilities for expanding supply bases of the construction industry in Eastern Siberia. Stroi. mat. 6 no.3:16-18 Mr '60.
(MIRA13:6)

1. Nachal'nik Upravleniya promyshlennosti stroitel'nykh materialov irkutskogo sovnarkhoza (for Tikhonov). 2. Nachal'nik proizvodstvenno-tekhnicheskogo otdela Upravleniya promyshlennosti stroitel'nykh materialov Irkutskogo sovnarkhoza (for Ryzhov).

(Siberia, Eastern--Building materials industry)

MOROZOV, N.P., inzh.; RYZHOV, L.M., dots., kand. tekhn. nauk,
otv. red.

[History of the development of petroleum transportation
on the Volga (prerevolutionary period)] Voprosy istorii
razvitiia neftepervezok na Volge (dorevoliutsionnyi pe-
riod); uchebnoe posobie dlia studentov po kursu istorii
tekhniki. Gor'kii, Gor'kovskii in-t inzhenerov vodnogo
transp. 1963. 34 p. (MIRA 16:11)

(Volga River--Inland water transportation)
(Petroleum--Transportation)

ACC NR: AR6036142 (N) SOURCE CODE: UR/0398/66/000/010/V008/V008

AUTHOR: Ryzhov, L. M.

TITLE: Turning qualities of pushed barge trains

SOURCE: Ref. zh. Vodnyy transport, Abs. 10V42

REF SOURCE: Tr. Gor'kovsk. in-ta inzh. vodn. transp., vyp. 79, 1966, 83 str.

TOPIC TAGS: ship navigation, water traffic, navigation system, marine equipment

ABSTRACT: A methodology for field tests and for the proper use of testing materials involves test specimens, the characteristics of completed test, and the devices and equipment used. The correlation of parameters for the established curvilinear movement of ships and large barge trains, and a universal diagram of the parameters, includes drift angle, circulation radius, turning pole, and the decrease in the circulation integral. Forces acting on a pushed barge train during its movement along a curvilinear trajectory include the centrifugal force of inertia; the support of screw propellers, the longitudinal hydrodynamic force of the pushed barge train's body, the force of the water pressure on the steering wheels of the

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UDC: 629.12.011.4

ACC NR: AR6036142

pusher tug, the side component of the hydrodynamic force of the barge train's body and its momentum. The determination of the curvilinear-movement parameters of pushed barge trains involve the differential equations of movement, the parameters of the movement and established period of circulation, and the determination of the movement parameters in the transition period. An approximate method for calculating the elements of deviation consists of the trajectory elements of ship movement, the determination of initial values, the calculation of the small coasting value, and the calculation of the reverse-bias value. Orig. art. has: 40 figures and a bibliography of 41 references. I. Makarov. [Translation of abstract] [GC]

SUB CODE: 13, 20/

Card 2/2

PAVLENKO, Vladimir Georgiyevich; MIRONOV, V.P., kand. tekhn. nauk,
retsenzent; RYZHOV, L.M., kand. tekhn.nauk, retsenzent;
VELEDNITSKIY, I.O., red.; VOLCHOK, K.M., tekhn. red.

[Basic principles in the theory of navigation on inland
waterways] Elementy teorii sudovozhdeniia na vnutrennikh
vodnykh putiakh. Leningrad, Izd-vo "Rechnoi transport."
Pt.1.[Selection of shipping routes] Vybor trassy sudovogo
khoda. 1962. 102 p. (MIRA 16:5)
(Inland navigation)

RYZHOV, L.M., kand.tekhn.nauk

Operational testing of experimental sectional barge trains. Rech.
transp. 18 no.2:14-17 F '59. (MIRA 12:4)
(Barges)

BORISOV, I.G., VAGANOV, G.I., RYZHOV, I.M., SHANCHUROV, P.N., SHACHUROVA, V.K.

Needed book("Ship propulsion calculations" by V.V.Zvonkov. Reviewed
by I.G.Borisov and others). Rech. transp. 17 no. 7:55-56 J1 '58.
(MIRA 11:8)

(Ship propulsion)
(Zvonkov, V.V.)

RYZHOV, I.I., Cand Tech Sci—(diss) "Actual studies of certain problems
of driving ^{the} ships by the ^{method} ~~push~~ method." Gor'kiy, 1958. 16 pp (Min of River
Fleet ~~at~~ RSFSR. Gor'kiy Inst of Engineers of Water^g Transport. Chair
of the Organization of Fleet Movement), 150 copies (KL, 30-58, 128)

RYZHOV, L.M., inzh.

Basic problems in the further development of ship handling by the
pusher method. Rech. transp. 17 no.1:14-19 Ja '58. (MIRA 1113)
(Ship handling) (Towing)

RYZHOV, L.M., kand. tekhn. nauk; VASIL'YEV, A.V., kand. tekhn. nauk; KRA-
KOVŠKIY, I.I., doktor tekhn. nauk, prof., retsenzent; NOVIK, R.I.,
red.; MAKRUSHINA, A.N., red. izd-va; YERMAKOVA, T.T., tekhn. red.

[Principles of the hydrodynamics of barge trains propelled by
pusher tugs] Osnovy gidrodinamiki tolkaemykh sostavov. Moskva,
Izd-vo "Rechnoi transport," 1961. 173 p. (MIRA 14:10)
(Barges)

SOURCE CODE: UR/0413/66/000/009/0125/0125

ACC NR: AP6015710 (A)

INVENTOR: Naydis, N. M.; Avramenko, A. K.; Yakuts, B. L.; Ryzhov, L. S.; Korchin, Yu. M.; Kalyuzhnyy, O. K.; Kuchinskiy, V. A.

ORG: None

TITLE: Fuel delivery controller for internal combustion engines. Class 46, No. 181445

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 125

TOPIC TAGS: engine fuel system, air temperature, fuel control

ABSTRACT: This Author's Certificate introduces: 1. A fuel delivery controller for internal combustion engines. The unit consists of a device for transmitting signals to a servomechanism, a stack of aneroid capsules and two correctors with pickups. These pickups are made in the form of bimetallic plates equipped with manual adjustment screws. Each of these bimetals varies fuel delivery as a function of air temperature. The second corrector is connected to the fuel delivery channel supplying fuel to the engine to allow for the variation in the specific weight of the fuel with temperature. 2. A modification of this controller in which transition from one type of fuel to another is simplified by a scale on the device for correcting temperature (specific weight). The indicating needle of the corrector scale can be set by a manual adjustment screw.

SUB CODE: 21/ SUBM DATE: 28Jun63

UDC: 621.43.031-441.2

Card 1/1

SOV/121-58-8-29/29

AUTHOR: ~~Ryzhov, W.A.~~

TITLE: Summary of the Work of the All-Union Scientific and Technical Conference on Advanced Methods of Manufacture of Gear Wheels (Itogi raboty vsesoyuznogo nauchno-tekhnicheskogo soveshchaniya po progressivnym metodam proizvodstva zubchatykh koles)

PERIODICAL: Stanki I Instrument, 1958, Nr 8, pp 44-45

ABSTRACT: The work is reviewed of a Conference which took place in Moscow on the 24.2.58-2.3.58, devoted to advanced methods of manufacture of gear wheels and production aspects of their design. The Conference was called by the Central and the Moscow Oblast Administrations as well as the Gear-Cutting Committee of the Scientific-Technical Society of the Engineering Industry. Among over 1000 participants, 300 represented Moscow, and 700 other regions. Representatives of East Germany and Poland took part. Apart from the plenary sessions, the Conference split into three special sessions, namely the manufacture of gear wheels in heavy engineering, in medium engineering and the manufacture of small pitch gear wheels. 98 reports were

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SOV/121-58-8-29/29

Summary of the Work of the All-Union Scientific and Technical
Conference on Advanced Methods of Manufacture of Gear Wheels

read. Discussion of manufacturing problems proceeded along four basic lines. 1) Fundamental avenues for increasing the productivity in the manufacture of gear wheels. 2) Improvement of the precision and quality of gear wheels by gear-cutting. 3) The manufacture, design and adoption of new types of gear transmissions. 4) Expansion of manufacturing facilities and plant. The production of gear transmissions is one of the most complex branches of the mechanical engineering industry tied to several engineering sciences and to the fields of machine tool construction, the tool industry and the instrument industry. 200,000 plants in the Soviet Union produce about 1 million gear wheels each day. The amount is scheduled to increase in future. Technical requirements impose increasing perfection of manufacturing methods and design. One of the basic trends is the changeover to steel of greater strength which can be quenched and treated by nitriding, case hardening and other methods. The size reduction achieved thereby increases the effective

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SOV/121-58-8-29/29

Summary of the Work of the All-Union Scientific and Technical
Conference on Advanced Methods of Manufacture of Gear Wheels

productivity in manufacture. Greater demands are placed on the metallurgical industry and the quality of heat treatment. The introduction of finishing operations such as tooth-grinding, lapping and others improves the precision and so allows, in particular, increased circumferential speeds. The typical production processes and production lines for automated gear-wheel production developed at the ENIMS Institute, confirm the advisability of creating in the first place about 100 automated production lines for the manufacture of spur and bevel gears where the output per year of each type exceeds 100,000. It is said that gears are produced 15% cheaper in automated shops, together with an improvement in quality. Increased productivity can also be attained by the adoption of new production processes, in particular of hot and cold rolling of gear teeth. Work in this direction is proceeding at the Khar'kov Tractor Works (Khar'kovskiy traktornyy zavod), ZIL, NIIAVTOPROM, TsNIITMASH, ENIMS, and the Chelyabinsk Tractor Works

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SOV/121-58-8-29/29

Summary of the Work of the All-Union Scientific and Technical
Conference on Advanced Methods of Manufacture of Gear Wheels

(Chelyabinskiy traktorny zavod). Productivity can also be increased by raising the stiffness of new gear-cutting machines and the endurance of gear-cutting tools. The following developments should be adopted to increase productivity: high-speed gear hobbing as practiced by ENIMS and GntZ, working with large feeds as adopted by NKZM (Kramatorsk), UZTM and ENIMS, multi-start milling cutters in preparation for shaving as used by the ZIL Works and others, sharp angle ground milling cutters as applied by VNII and GAZ, gear-hobbing with radial and tangential feed developed by the Urals Polytechnic Institute, axial and circular broaching in cutting of spur and bevel gears, advanced methods of gear-shaving with diagonal and tangential feed and other methods. Much attention was devoted to improving the quality of gear wheels and the methods of their inspection. Work in the field of the precision of gear and worm transmissions and the study of noise has been considerably advanced recently. In some factories, inspection is accomplished and precision

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