



LUKIN, N.I., inzh.

Circular precision photometric wedge. Svetotekhnika 5 no.10:28-29  
0 '59. (MIRA 13:2)  
(Photometers)

LUKIN, N.I., inzh.

Some problems of the burning of natural gas and heat exchange in furnaces. Izv.vys.ucheb.zav.; energ. no.1:68-77  
Ja '60. (MIRA 13:1)

1. L'vovskiy politekhnicheskiy institut. Predstavlena kafedroy termodinamiki i teplotekhniki.  
(Gas, Natural) (Furnaces)

LUKIN, N.I., inzh.; RYABININ, V.I., inzh.

Photoelectric photometer with an integrating sphere. Svetotekhnika  
6 no.5:13-17 My '60. (MIRA 13:12).

(Photometers)

LUKIN, N.I., inzh.; PETROVA, E.S., inzh.

Selenium photocells with corrected spectral sensitivity.  
Svetotekhnika 9 no.10:32 0 '63. (MIRA 16:11)

LAZAREV, D. N.; LUKIN, N. I.; PETROVA, Ye. S.

"Biological photometer."

report presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.

LUKIN, N.I.

Introduction of new drilling techniques in the geological-prospecting organizations of the Geological Administration of Central regions.  
Biul.nauch.-tekh.inform VIMS no.1:64-66 '63.

(MIRA 18:2)

1. Geologicheskoye upravleniye Tsentral'nykh rayonov.

L 26569-63

ACC NR: AP6017351

SOURCE CODE: UR/0311/65/000/009/0016/0019

AUTHOR: Lukin, N. I. (Engineer); Petrova, E. S. (Engineer)

27  
24  
B

ORG: none

TITLE: Photoelectric color comparator ①

SOURCE: Svetotekhnika, no. 9, 1965, 16-19

TOPIC TAGS: colorimetry, optic transmission

ABSTRACT: The comparator represents a development of the state optical institute, made by M. M. GUREVICH and L. N. MEYER.

The basic features of the comparator are:

1. The error in measuring small differences in chromaticity does not exceed 0.005.
2. The apparatus permits measurements to be made of the chromaticity of transparent and opaque solid samples, and cells attached to the apparatus also permit measurements to be made of the chromaticity of liquids and powdered materials.
3. The spectral composition of the radiation source corresponds to the standard colorimetric sources A and C.
4. The error of the measuring unit of the apparatus in the middle part of the light transmission scale is not more than 1%

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L 26569-66

ACC NR: AP6017351

3

absolute, the measuring unit being a mechanical measuring diaphragm with variable opening.

5. The sensitivity of the apparatus is quite high, and permits measurements to be made both on bright samples and on samples having a reflection coefficient of 3-5%.

6. The chromaticity is determined from the apparatus readings by means of nomograms, so that the apparatus may be used for comparatively large scale laboratory and factory measurements.

The construction of the color comparator in the described version was developed by construction engineers V. V. Zharova and V. I. Charni, the electric schematic of the apparatus by engineer B. P. Bessalov. Orig. art. has: 4 figures and 9 formulas. [JPRS]

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 003

Card 2/2

LUKIN, N.I.

Experimental investigation of the distribution of heat flows  
along the height of the transverse section of a horizontal  
heating chamber. Gaz. prom. 10 no.4:24-28 '65.

(MIRA 18:5)

LUKIN, N. P.; LUKIN, I. B.; GURVICH, I. D.;  
PSHENISNOV, A. V.; SCHNEYDER, G. K.

Automobiles - Motors

Determination of optimal conditions for breaking in motors. Avt.trakt.prom. No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

LUKIN, N. P.

USSR/Miscellaneous

Card 1/1 : Pub. 12 - 9/15

Authors : Lukin, N. P.; Slepova, E. Z.; Gurvich, I. B.; Pshenishnov, A. V.; and Chumakova, N. M.

Title : Improvement in the finishing of engine parts

Periodical : Avt. trakt. prom. 2, 28-29, Feb 1954

Abstract : The importance of qualitative preparation of friction surfaces of auto-engine parts, is explained. The methods and means employed by the Molotov Automobile Plant in Gorkiy for improving the quality and service life of parts for the engines Gaz-51, Gaz-63, M-20 and ZIM, are described.

Institution : The V. M. Molotov Automobile Plant, Gorkiy

Submitted : .....

LUBRICANTS

Cooling-lubricating liquid for the mechanical working of steel and iron: N. P. Lukin and A. V. Kurakin, U.S.S.R. 162,569, Apr. 30, 1953. The liquid is made of triethanolamine 0.5-1.8, glycerol 0.25-0.6,  $\text{NaNO}_2$  0.25-0.6, and  $\text{H}_2\text{O}$  98-9%. In place of  $\text{NaNO}_2$  0.25-0.6% of naphtha soap can be used. M. Haseh...

18 5

4E22

4E4j

11, 4E28

PH 07

LUKIN, N.P., inzh.; DASHKEVICH, I.I., inzh.

The EDT-2,5 heavy disc harrow. frakt.1 sel'khoz mash. 32 no.9:36  
S '62. (MIRA 15:12)

1. Spetsial'noye konstruktorskoye byuro zavoda "Sibsel'mash."  
(Harrow)

IGNAT'YEV, Ye.I.; LUKIN, N.S.; GROMOV, M.D.; VVEDENSKAYA, L.A.,  
red.

[Psychology; a textbook for normal schools] Psikhologiya;  
posobie dlia pedagogicheskikh uchilishch (shkol'nykh).  
Moskva: Prosveshchenie, 1965. 343 p. (MIRA 18:8)

GRABETSKIY, A.A.; LUKIN, N.S.

Study and development of students' interest and ability in  
studying chemistry. Uch.zap.MGPI no.225:42-53 '64.  
(MIRA 18:12)



LUKIN, N.V.

Age-conditioned differences in observation processes in  
schoolchildren. Uch. zap. MBPI no.94:175-223 '63.

(MIRA 18:6)

LUKIN, O.

Engine control instruments of tanks and self-propelled equipemnt. No 1.

Tankist, No 12, 1948.

LUKIN, O.

The defects and repairs of tank speedometers. No 7.

Tankist, No 12, 1948.

LUKIN, O.

AVRM tank clocks. No 11. Tankist, No 12, 1948.

LUKIN, O.A., inzhener; REZNITSKIY, L.M., redaktor; SOLOVEYCHIK, A.A.,  
tekhnicheskiiy redaktor.

[Mechanization of fitting and finishing jobs in small-lot  
production; work practice of the mechanic-innovator] Mekhanizatsia  
slesarno-dodelochnykh rabot v melkoseriinom proizvodstve; opyt  
mekhanika-novatora V.M.Bogdanova. Leningrad. Leningradskoe gazetno-  
zhurnal'noe i knizhnoe izd-vo, 1950. 51 p. [Microfilm] (MLRA 9:6)  
(Machine-shop practice)

LUKIN, O. A.

Povyshenie proizvoditel'nosti truda pri kholodnoi shtampovke za schet uluchsheniia tekhnologichnosti detalei. (Vestn. Mash., 1950, no. 11, p. 30-34)

(Increasing the efficiency of cold stamping operations by technical improvement of machine parts.)

DLC: TN4.V4

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

MAYZEL', A.M., inzh.; ANDREYEV, V.M., prof., otv.red.; LUKIN, O.A., inzh.,  
red.; FREGER, D.P., tekhn.red.

[Replacing the scraping of joint planes of large parts by  
grinding; experience of the Leningrad Metal Works] Zamena  
shabrovki ploskosti raznoma krupnogabaritnykh detalei  
shlifovaniem; opyt Leningradskogo metalicheskogo zavoda imeni  
I.V.Stalina. Leningrad, 1952. 11 p. (Informatsionno-tekhnicheskii listok, no.52 (393))

(MIRA 14:6)

1. Leningradskiy Dom nauchno-tekhnicheskoy propagandy.  
(Leningrad--Grinding and polishing)

KUZ'MIN, M.I., inzh.; ANDREYEV, V.M., prof., otv.red.; LUKIN, O.A.,  
inzh., red.; FREGER, D.P., tekhn.red.

[New method for finishing surfaces of parts by cold hardening]  
Novyi metod otdelki poverkhnostei detalei naklepyvaniem.  
Leningrad, 1952. 21 p. (Informatsionno-tehnicheskii listok,  
no.14 (355)). (MIRA 14:6)

1. Leningradskiy Dom nauchno-tehnicheskoy propagandy.  
(Metals—Finishing)



KOZIN, Vladimir Aleksandrovich; TSYRIN, Arkadiy Alekseyevich; CHAPSKIY,  
Oleg Ustinovich; LUKIN, O.A., redaktor; MOLODTSOVA, N.G., tekhnicheskii  
redaktor

[Repair of tractor parts] Remont traktornykh detalei. Moskva, Gos.  
izd-vo sel'khoz. lit-ry, 1956. 319 p. (MIRA 10:4)  
(Tractors--Repairing)

LUKIN, O. A., Cand of Tech Sci -- (diss) "The machinability of a metal which is welded by electrodes OZN-300 during the assembling of tractor parts." Leningrad, 1957, 21 pp (Leningrad Agricultural Institute), 200 copies (KL, 32-57, 93)

LEBEDEV, Aleksandr Semenovich; LUKIN, O.A., inzh., retsenzent; SOBOLEV, N.P., prof., red.; LEYKINA, T.L., red.izd-va; SOKOLOVA, L.V., tekhn.red.

[Methods of reconditioning machine-tool parts] Sposoby vosstanovleniia detalei stankov. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1958. 238 p. (MIRA 12:2)  
(Machine tools--Maintenance and repair)

S/123/62/000/006/004/018  
A004/A101

AUTHOR: Lukin, O. A.

TITLE: On the selection of the sintered carbide grade and geometric tool parameters for turning metal faced with high-quality electrodes

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 6, 1962, 28, abstract 6B125 ("Zap. Leningr. c.-kh. in-ta", 1961, 85, 36-41)

TEXT: The author investigated the physical-mechanical properties, chemical composition and microstructure of metal built up in two layers by the high-quality O3H-300 (OZN-300) electrodes on the 45 grade steel, which was subjected to water-quenching at 820°C and tempering at 475°C. The hardness after heat treatment was HB 285 - 321. The investigations yielded the following results: structural nonhomogeneity of the built-up metal, the microstructure of the second layer is similar to the cast structure and consists of elongated ferrite grains. The structure of the first layer is sorbitic pearlite. There were slag inclusions in the metal structure. A non-homogeneity of the physical-mechanical properties and chemical composition could be observed. Owing to these properties, the built-up metal possesses a low machinability. The author presents the

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On the selection of the sintered carbide ...

S/123/62/000/006/004/018  
A004/A101

investigation results of cutting cylindrical blanks from 45 grade steel faced with OZN-300 electrodes. The investigations were carried out during rough and finish turning of the blanks with tools fitted with different sintered carbide bits of a geometry according to ГОСТ(GOST) 6743-53. The back and rake angles were of varying magnitude while the cutting conditions during finish turning were:  $v = 165$  m/min,  $s = 0.15$  mm/rev,  $t = 0.5$  mm, and the corresponding figures for rough turning were:  $v = 46$  m/min,  $s = 0.3$  mm/rev,  $t = 2$  mm. The dulling of the tools was determined by the back edge wear. The best results were shown by tools fitted with T15K6 sintered carbide bits with the following parameters:  $\gamma = -10^\circ$ ,  $\alpha = 12^\circ$  for finish turning and  $\gamma = -15^\circ$ ,  $\alpha = 12^\circ$  for rough turning. The author presents the design of a tool introduced at the repair plants of the Leningrad Oblast' for the turning of metal built-up with electrodes in the reconditioning of automobile and tractor parts. There are 3 figures and 2 tables.

I. Bernshteyn

[Abstracter's note: Complete translation]

Card 2/2

SHADRICHEV, Viktorin Arsen'yevich; LUKIN, O.A., red.; FOMICHEV,  
A.G., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Modern methods for the reconditioning of worn-out machine  
parts]Sovremennye sposoby vosstanovleniia iznoshennykh deta-  
lei mashin; stenogramma lektsii. Leningrad, 1962. 34 p.  
(MIRA 15:11)

(Machinery—Maintenance and repair)

TYUR, Rudol'f Al'bertovich; LUKIN, O.A., red.; VENTSEL', O.A.,  
red.; VENTSEL', I.V., red.izd-va; BELOGUROVA, I.A., tekhn.  
red.

[Increasing the wear resistance of machine parts by metal  
spraying using high frequency currents] Povyshenie iznoso-  
stoikosti detalei mashin sposobom metallizatsii napyleniem  
s primeneniem tokov vysokoi chastoty. Leningrad, 1963. 17 p.  
(Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen  
peredovym opytom. Serii: Mekhanicheskaja obrabotka metallov,  
no.14) (MIRA 17:1)

LUKIN, O.M.  
CA

7

Spot reactions for copper, mercury, and lead salts. N. I. Pyshkin and O. M. Lukin. *Zhuk. Anal. Khim.* 5, 319-20 (1930). To test for Cu a drop of aniline and a drop of soln. (neutral or alk.) are mixed on filter paper. A green color indicates the presence of Cu; Cd, Pb, and Bi do not interfere. Hg forms a dense white ppt. but does not interfere. The limiting concn. of Cu for this test is 1:40,000 and the min. detectable is 0.025  $\gamma$ . To test for bivalent Cu sat. filter paper with a soln. of Aluminum in acetone and place a drop of test soln. (neutral or alk.) on it. A deep red color indicates the presence of Cu. A limiting concn. 1:20,000 detectable min. 0.05  $\gamma$ . To test for Hg sulfanilamide is used with which it forms a white spongy ppt. Limiting concn. 1:5,000, minimum detectable 0.2  $\gamma$ . To test for Pb an acetone soln. of quin-alizarin is used with which it produces a cherry colored or at small concns. a gray-blue ring. Limiting concn. 1:100,000, min. detectable 0.01  $\gamma$ . M. Hirsch



LUKIN, O. M.

287. Indirect method of volumetric analysis. N. I. Pyshkin and O. M. Lukin (f. anat. Chem., USSR, 1951, 6, 261).--Mixtures of two substances each of which gives a known vol. of gas per unit wt. in a certain reaction can be analysed by using a single determination of the vol. of gas evolved from the mixture, e.g., binary alloys, carbonates, nitrates, diazo-compounds, etc.

G. S. Smith.

L 39721-66 EWT(L)/EWA(h) GD-2

ACC NR: AP6007596

SOURCE CODE: UR/0119/66/000/002/0023/0024

AUTHOR: Vender, B. M. (Engineer); Kuz'mitskiy, V. A.; Lukin, O. P.

ORG: none

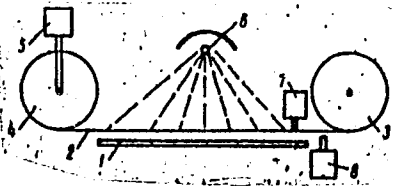
TITLE: Small-size rear-lighted punch-type recorder

SOURCE: Priborostroyeniye, no. 2, 1966, 23-24

TOPIC TAGS: data recording, signal recording, electronic equipment

ABSTRACT: A step-advancing paper-strip device is suggested for recording various control signals, such as those checking operable conditions of equipment, etc.

A coordinate raster is printed on the face of transparent screen 1 (see figure); 10-cm wide paper (or metal) strip 2 is stepwise advanced by reels 3 and 4 driven by motor 5. Lamp 6 illuminates the strip where puncher 7 makes holes at definite time moments in (vertical) positions corresponding to the monitored circuits or their conditions. Small printer 8 may supply additional information at the time of punching. The recorder with 5-min steps is proposed for signaling electronic equipment faults, etc. Orig. art.



has: 5 figures.

SUB CODE: 09 / SUBM DATE: none  
Card 1/1

UDC: 621.087.353

9  
B

25

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LUKIN, O.Ya.

Volcanic tuffs in Miocene sediments of the cis-Carpathian region.  
Geol.zhur. 18 no.3:96-99 ' 58. (MIRA 11:11)  
(Carpathian Mountain region--Volcanic ash, tuff, etc.)

LUKIN, P.

"Sole fishing", p. 16 (Morsko Ribarstvo, Vol. 5, no. 1/2, 1953, Zagreb)

SO: Monthly List of <sup>East European</sup> ~~Russian~~ Accessions, / Library of Congress, September 1953, Uncl. <sup>Vol. 2, No 9</sup>

LUKIN, P.

LUKIN, P. Fishing school in Piran. p. 172.

Vol. 7, No. 7, July 1955.

MCRSVC RIARSTVC.

AGRICULTURE

Rijeka, Yugoslavia

So: East European Accession, Vol. 5, No. 5, May 1956

LUKIN, P., mayor

Two short pages. Voen. vest. 42 no.5:12-13 M; '63. (MIRA 16:5)  
(Tanks (Military science)--Cold weather operation)  
(Military reconnaissance)

LUKIN, P.G.; POPOV, Yu.A.; SHAPOSHNIKOV, A.K.

Making blast furnace ferrosilicon. Metallurg 8 no.4:8-11 Ap '63.  
(MIRA 16:3)

(Ferrosilicon—Metallurgy)

KHOLZAKOV, V.I.; BRATCHENKO, V.P.; OSTROUKHOV, M.Ya.; LUKIN, P.G.;  
GAVRILYUK, L.Ya.

Effect of the shape of a blast furnace working area on the distribution  
of the gas flow. Metallurg 8 no.8:6-9 Ag '63. (MIRA 16:10)



VYATKIN, N.B., inzh.; LUKIN, P.G., inzh.; POPOV, Yu.A., inzh.; NEKIPELOV, S.P.,  
inzh.; SHAPOSHNIKOV, A.K., inzh.; PROKHOROV, V.N., inzh.

Making pig iron with an oxygen-enriched blow. Stal' 23 no.4:293-296  
Ap '63. (MIRA 16:4)  
(Cast iron—Metallurgy) (Oxygen—Industrial applications)

KHOLZAKOV, V.I.; BRATCHENKO, V.P.; OSTROUKHOV, M.Ya.; LUKIN, P.G.; NEKIPELOV, S.P.;  
POPOV, Yu.A.; GAVRILYUK, L.Ya.

Investigating the processes in the stack and hearth of a blast furnace  
during smelting with sinter of Bakal and Sokolovka-Sarbay ores. *Stal'*  
23 no.4:297-300 Ap '63. (MIRA 16:4)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallurgii i  
Chelyabinskiy metallurgicheskiy zavod.  
(Blast furnaces)

STARSHINOV, B.N.; SINITSKIY, V.D.; SEN'KO, G.Ye.; GULYGA, D.V.; BABIY, A.A.;  
KHORUZHIY, A.G.; Primalni uchastiye: OSTROUKHOV, M.Ya.; SAVELOV,  
N.I.; PLISKANOVSKIY, S.T.; MOISEYEV, Yu.G.; LAVRENT'YEV, M.L.;  
TARASOV, F.P.; ZAGREBA, A.V.; KAMENEV, R.D.; TKACHENKO, A.A.;  
FREYDIN, L.M.; LUKIN, P.G.; POPOV, Yu.A.; MISHIN, P.P.; KARACHENTSEV,  
M.D.; DOLMATOV, V.A.; AYUKOV, A.S.; PALAGUTA, V.P.; VYAZOVSKIY, Yu.V.;  
SOLODKIY, Yu.A.; KONAREVA, N.V.; SAPRONOV, Yu.V.; SINITSKAYA, S.K.;  
SAPRONOV, B.V.; LEKAREV, V.L.; STOLYAR, V.V.; PROKHORENKO, Z.A.;  
BANDINA, Ye.Ye.

Results of the first year of operation of large capacity blast  
furnaces. Sbor. trud. UNIIM no.11:34-46 '65.

(MIRA 18:11)

LUBENETS, I.A.; LUKIN, P.G.; GAVRILYUK, L.Ya.; PROKHOROV, V.N.

Results of the use of natural gas in blast furnaces. Metallurg 10  
no.9:5-7 S '65. (MIRA 18:9)

1. Chelyabinskiy metallurgicheskiy zavod.

LUKIN, P.I., brigadir puti (g.Smolensk)

Tail piece of frogs needs modification. Put: 1 put. khos. 5  
no.3:7 Mr '61. (MTR 14:3)  
(Railroads--Switches)

LURIN, P. I

ACCESSION NR: AP4034808

S/0293/64/002/002/0342/0346

AUTHOR: Milovidev, I. V.

TITLE: Paris Congress of the International Astronautics Federation

SOURCE: Kosmicheskiye issledovaniya, v. 2, no. 2, 1964, 342-346

TOPIC TAGS: astronautics, international conference, astrodynamics, celestial mechanics, artificial earth satellite, gravity field, cosmic radiation, space flight, high-energy proton, weightlessness, blood circulation, spaceship, bioastronautics

ABSTRACT: The Fourteenth Congress of the International Astronautics Federation was held in Paris during the period from September 25 to October 2, 1963. The Soviet delegation was headed by Academician L. I. Sedov, Vice-President of the IAF. Other members of the delegation included Yu. A. Gagarin, N. P. Kamanin, G. N. Duboshin, V. V. Antipov and V. A. Sary\*chev. The congress was attended by 700 persons representing more than 40 countries. Yu. A. Gagarin presented one of the reports. Academician L. I. Sedov was elected one of the vice-presidents. The following are the 22 reports presented by Soviet scientists: 1. G. N. Duboshin and D. Ye. Okhotsimskiy -- Certain Problems in Astrodynamics and Celestial

Card 1/3

ACCESSION NR: AP4034808

Mechanics; 2. V. V. Beletskiy and V. A. Sary\*chev -- Problems in the Motion of Artificial Earth Satellites Relative to a Center of Mass; 3. Yu. V. Batrakov - Use of Resonance Satellites for Determination of the Constants of the Earth's Gravitational Field; 4. Ye. P. Aksenov - Motion of an Artificial Satellite in the Earth's Gravitational Field; 5. F. L. Chernous'ko -- Investigation of the Motion of a Satellite Relative to a Center Using Averaging Methods; 6. G. Ye. Kuzmak and V. A. Yaroshevskiy -- Application of Asymptotic Methods to Certain Problems of the Dynamics of Spacecraft During Entry Into the Atmosphere; 7. N. Ya. Bagayeva and N. N. Moiseyev - A New Method of Solution of Problems in the Theory of Optimum Flights; 8. V. N. Lebedev -- Certain Problems in the Theory of Optimum Flights; 9. A. I. Kur'yanov, V. K. Isayev and V. V. Sosnin - Application of the Maximum Principle in Problems of Rocket Dynamics; 10. G. L. Grodzovskiy and A. L. Stasenko -- The Form of Heat-Transfer Elements of Power Apparatus Cooled by Radiation, Part III. Form of a Flexible Filament in a Field of Centrifugal Forces; 11. G. L. Grodzovskiy, Yu. I. Ivanov and V. V. Tokarev -- Motion of a Variable Mass With Constant and Decreasing Expenditures of Power in a Gravitational Field. Part III.; 12. V. V. Antipov, P. P. Saksonov and V. I. Yazdovskiy -- Investigation of the Biological Effect of Cosmic Radiation During Space Flight; 13. Yu M. Voly\*inkin, P. P. Saksonov, V. V. Antipov and I. A. Savenko -- Problems

Card 2/3

ACCESSION NR: AP4034808

in Radiation Safety During Space Flights; 14. Yu. M. Voly\*inkin, P. P. Saksonov, V. V. Antipov, N. N. Dobrov and M. D. Nikitin -- Ensuring Radiation Safety During the Flights of the Soviet Cosmonauts Yu. A. Gagarin, G. S. Titov, A. G. Nikolayev and P. R. Popovich; 15. P. P. Saksonov, V. V. Antipov, V. S. Shashkov, B. L. Razgovorov, G. F. Murin and V. S. Morozov -- Data on the Biological Effect of High-Energy Protons; 16. R. M. Bayevskiy and O. G. Gizenko -- Certain Problems in the Physiology of Blood Circulation During Weightlessness; 17. V. I. Krasovskiy -- Corpuscles in the Upper Atmosphere; 18. K. I. Gringauz, B. N. Gorozhankin, N. M. Shyutte and G. L. Gdalevich -- Certain Experiments Aboard the Satellite "Kosmos-2"; 19. Ye. A. Korovin -- Factors Hindering the Development of Space Law; 20. G. P. Zhukov -- Freedom of Space and Its Limits; 21. P. I. Lukin -- An International Law Form of Regulation of Space; 22. E. G. Vasilevskaya -- Assistance and Rescue of Crews of Spaceships Which Have Experienced Damage. The article also lists the titles of 61 reports presented by non-Soviet specialists.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 20May64

ENCL: 00

SUB CODE: SV, PH

NO REF SOV: 000

OTHER: 000

Card 3/3



ACC NR: AM6035816

Monograph

UR/

Zhukov, G. P.; Vasilevskaya, E. G.; Lukin, P. I.

Outer space and the problem of universal peace (Kosmos i problema vseobshchego mira) Moscow, Izd-vo "Nauka", 1966. 193 p. biblio. (At head of title: Akademiya nauk SSSR. Institut gosudarstva i prava) 3200 copies printed.

TOPIC TAGS: space flight, space program, space warfare, space law, disarmament

PURPOSE AND COVERAGE: This book, intended for the general reader, discusses the problems of assuring the use of space for peaceful purposes. It summarizes the UN proceedings relative to this matter and stresses the validity of the Soviet position. The legal problems arising in connection with the use of outer space, including the safety of astronauts, responsibility for damage, and questions of jurisdiction are discussed.

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Ch. II. Law and order in space - a vital necessity -- 47

Ch. III. International legal problems of assuring the safety of flights in outer space -- 63

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UDC: NONE

ACC NR: AM6035816

Ch. IV. Responsibility for damage sustained as a result of space activity -- 101

Ch. V. Use of artificial Earth satellites to create a world-wide communications system -- 129

Ch. VI. Communication satellites and international relations -- 152

Ch. VII. International legal status of communication satellites -- 174

Ch. VIII. Meteorological satellites and problems of international law -- 185

SUB CODE: 05, 22/

SUBM DATE: 28Apr66/

ORIG REF: 149/

OTH REF: 079

Card 2/2

LUKIN, P. P.

"Investigation of Some Dynamic Stresses in the Transmission of an Automobile." Cand Tech Sci, Moscow Automotive Mechanics Inst, Moscow, 1954. (RZhMekh, Mar 55)

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

LUKIN, P.P., kandidat tekhnicheskikh nauk.

Impact load in automobile transmissions. Avt. i trakt. prom.  
no.3:24-27 Mr '56. (MIRA 9:7)

1. Moskovskiy Aviamotornyy institut.  
(Automobiles--Transmission devices)

AUTHOR: Lukin, P.P., Candidate of Technical Sciences 113-58-7-13/25

TITLE: The Stress of the Transmission of the Automobile During Braking with the Central Brake (Nagruzheniye transmissii avtomobilya pri tormozhenii tsentral'nym tormozom)

PERIODICAL: Avtomobil'naya promyshlennost', 1958, Nr 7, pp 27-28 (USSR)

ABSTRACT: Moments of inertia beyond plant calculations become effective in the transmission of a car in motion when the driver operates the central brake in the case of failure or insufficient action of the other brakes. This frequently results in damage to the transmission. Relevant experiments were made with the GAZ-51 car at various speeds ranging from 5 to 40 km/h. It became obvious that the effect of the moments of inertia grows up to a speed of 15 km/h and decreases at higher speeds, being the smallest at a speed of 40 km/h. These findings should be considered in plant calculations of the moments of inertia. There is 1 diagram, 1 table, 1 graph, 2 oscillograms and 4 Soviet references.

ASSOCIATION: Moskovskiy avtomekhanicheskiy institut (The Moscow Auto-mechanical Institute)

Card 1/2

113-58-7-13/25

The Stress of the Transmission of the Automobile During Braking with the  
Central Brake

1. Transmissions--Stresses    2. Transmissions--Moments    3. Transmissions--Test results

Card 2/2

SOV-115-58-9-17/19

**AUTHORS:** Stefanovich, Yu.G., Lukin, P.P., Candidates of Technical Sciences

**TITLE:** An All-Union Scientific-Technical Congress on the Investigation of the Actual Loads in the Assemblies and Parts of the Automobile (O vsesoyuznom nauchno-tekhnicheskome soveshchanii po issledovaniyu deystvitel'nykh nagruzok v agregatakh i detalyakh avtomobilya)

**PERIODICAL:** Avtomobil'naya promyshlennost', 1958, Nr 9, pp 46-47 (USSR)

**ABSTRACT:** About 300 representatives of Soviet automobile plants, scientific research organizations and vtuzes, and some guests from the CSR, attended the All-Union Scientific-Technical Congress on the investigation of the actual loads in the assemblies and parts of the automobile, in Moscow from 1 to 3 April 1958. A total of 19 papers were read. Most papers - 10 - dealt with problems of the actual loads on the transmission. Engineer V.M. Semenov read out his paper on the "Torsional Arrangement of the Power Transmission of the Automobile", where he recommended the insertion of elastic rubber elements in the section of active connection, and to design them with special absorbers for a dampening of the

Card 1/4

SOV-113-58-9-17/19

An All-Union Scientific-Technical Congress on the Investigation of the Actual Loads in the Assemblies and Parts of the Automobile

torsional oscillation, to reduce the dynamic loads in the transmission of the automobile. For the same purpose of reduction of the dynamic loads in the car transmission by aid of a hydrotransformer, the results of theoretical and experimental investigations in this field were related in the papers of engineer P.M. Brusentsov and the MAMI aspirant Chzhuan Tszide. It is hoped to eliminate 30 to 50% of the dynamic loads by utilizing the inertia moments of the liquid and transformer parts. Problems of investigation of the operation condition and stability of the driving axles were considered in the papers of the Candidates of Technical Sciences V.S. Prozorov and Yu.K. Kolodiy. Relevant experimental data had been taken from the ZIL-151. The coefficients of impact that are 1.7 on asphalt roads, 2.0 on cobblestone roads, 2.2 on dirt roads and 4.2 on cross-country sections have been evaluated. Engineer P.P. Lukashenko and the Candidates of Technical Sciences V.O. Shmidt and Z.I. Talantova devoted their papers to the investigation of the loads and operation conditions of the parts of the steering gear. The loads on the steering gear - they reach 60 kg in

Card 2/4



SOV-113-58-9-17/19

An All-Union Scientific-Technical Congress on the Investigation of the Actual Loads in the Assemblies and Parts of the Automobile

the ZIL-150 - are often higher than calculated. Therefore it is recommended to add reinforcements to the steering gear parts especially in the middle-sized trucks intended for heavy use. The site of the power cylinder is essential; for high-load truck types the power cylinder arrangement of the YaAZ-214 is recommended. Candidate of Technical Sciences I.S. Tsitovich described in his paper the work carried out by the Belorusskiy politekhnicheskiy institut (Belorussian Polytechnical Institute) with the cooperation of the Minskiy avtozavod (Minsk Car Plant) on calculation methods and projection of automobile parts for extreme conditions. Candidate of Technical Sciences R.V. Kugel' spoke on the selection principles of operation conditions of automobile assemblies for tests. He stressed the necessary coordination of material, loads and mode of tests. The meeting demonstrated that investigations of the actual loads in the automobile assemblies and parts are under way in all basic automobile plants, in NII and the vtuzes, but that the coordination of methods and results is poor and the experimental evaluation of the theoretic

Card 3/4

SOV-113-58-9-17/19

An All-Union Scientific-Technical Congress on the Investigation of the Actual Loads in the Assemblies and Parts of the Automobile

conclusions insufficient. NAMI and NTO of MASHPROM will be asked to establish a permanent acting commission.

ASSOCIATION: NAMI, Moskovskiy avtomekhanicheskiy institut (MAMI, the Moscow Automechanical Institute)

1. Automobile industry--USSR 2. Automobiles--Stresses

Card 4/4

LUKIN, P.P., kand. tekhn. nauk

Effect of clutch shock dampers on the loading conditions of the  
"Moskvich" car transmission. Avt.prom. no.9:26-28 S '61.  
(MIRA 14:9)

1. Moskovskiy avtomekhanicheskiy institut.  
(Automobiles--Transmission devices)

LUKIN, P.P., kand.tekhn.nauk; GORELOV, L.R.

Effect of the hydraulic drive of the clutch on dynamic loads  
in the transmission of the "Moskvich" automobile. Avt.prom.  
28 no.5:28-31 My '62. (MIRA 15:5)

1. Moskovskiy avtomekhanicheskiy institut i Moskovskiy zavod  
malolitrzhnykh avtomobiley.  
(Automobiles--Transmission devices--Testing)

L 24110-65

ACCESSION NR: AP5002678

S/0113/64/000/011/0014/0016

AUTHOR: Lukin, P. P. (Candidate of technical sciences)

TITLE: On a method for calculating the damping of torsional oscillations in the transmission system of an automobile

SOURCE: *Avtomobil'naya promyshlennost'*, no. 11, 1964, 14-16

TOPIC TAGS: torsional vibration, torque, transmission, Cardan suspension, translational displacement/ Moskvovich 407, M 21 Volga, M 20 Pobeda, GAZ 51 automobile

ABSTRACT: A method of computing the damping of torsional oscillations in the transmission system of an automobile is described. The equivalent scheme of the system is shown in Fig. 1 on the Enclosure. Here  $J_1$  is the moment of inertia of the rotating part of the vehicle,  $J_2$  is the reduced moment of inertia of the transmission, the Cardan shaft, and the driving and the driven gears,  $J_3$  is the reduced moment of inertia of the wheel and tire,  $J_4$  is the reduced moment of inertia of the part of vehicle in translational motion,  $c$ 's are the magnitudes of the rigidity of the various parts, and  $\lambda$ 's are the maximum amplitudes of displacements. These quantities are interrelated by equations

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L 24110-65

ACCESSION NR: AP5002678

$$\lambda_2 = \lambda_1 - \frac{p^2}{c_1} J_1 \lambda_1$$

$$\lambda_3 = \lambda_2 - \frac{p^2}{c_2} (J_1 \lambda_1 + J_2 \lambda_2)$$

$$\lambda_4 = \lambda_3 - \frac{p^2}{c_2} (J_1 \lambda_1 + J_2 \lambda_2 + J_3 \lambda_3)$$

$J_1 \lambda_1 p^2 + J_2 \lambda_2 p^2 + J_3 \lambda_3 p^2 + J_4 \lambda_4 p^2 = 0$ , where p is the natural frequency of oscillation of the system. The frictional moment  $M_{fp}$  and the torsional moment  $M_{tp}$  are related by

the formula  $M_{fp} = \frac{\pi k M_{tp} c_1}{4 J_1 p^2}$ . Numerical calculations are presented for the damping of the vibrations in the transmission systems of the vehicles Moskvich-407, M-21 "Volga," M-20 "Pobeda," and GAZ-51. Orig. art. has: 14 formulas, 3 figures, and 1 table.

ASSOCIATION: Moskovskiy avtomakhanicheskiy institut (Moscow Automotive Engineering Institute)

SUBMITTED: 00

NO REF SOV: 004

Card 2/3

ENCL: 01

OTHER: 000

SUB CODE: FR, IE

LUKIN, P.P., kand. tekhn. nauk

Method of designing dampers of torsional vibrations in an  
automobile transmission. Avt. prom. 30 no. 11:14-16 N '64  
(MIRA 18:2)

1. Moskovskiy avtomechanicheskiy institut.

**LUKIN, S.**

Sailing schedule of ships in ocean transportation. Mor.i rech.flot 13 no.6:  
11-13 0 '53. (MLFA 6:10)  
(Merchant marine)



LUKIN, S.

Don't allow the repetition of shortcomings in publishing the book  
"Statistics of river transportation" by I.V. Sipovskaia. Reviewed  
by S. Lugin, Rech.transp. 18 no.7:55-56 J1 '59. (MIRA 12:11)  
(Inland water transportation---Accounting)  
(Sipovskaia, I.V.)

LUKIN, S.M., dotsent

Determination of the angle of drift by the observation of a fixed  
object. Sudovozhdenie no.2:81-85 '62. (MIRA 17:4)

1. Kafedra sudovozhdeniya Leningradskogo vysshego inzhenernogo  
morskogo uchilishcha im. admirala Makarova.

LUKIN, S.M., dotsent

New manual on the use of radar in navigation. Sudovozhdenie  
no.2:137-139 '62.

(MIRA 17:4)

LUKIN, S.P., inzhener-kapitan 1-go ranga

Antirocket and space defenses. Mor. sbor. 46 no.8:27-34 Ag '63.  
(MIRA 16:10)

(Air defenses)

SKOROTSKIY, S.S.; LUKIN, S.V.; KORSHUNOV, I.V., red.; KHASIN, L.N., tekhn.  
red.

[Production planning for subsidiary plants of the petroleum trust]  
Proizvodstvennoe planirovanie podsobnykh predpriatii nefte-doby-  
vayushchego tresta. Baku, Gos. nauchno-tekhn. izd-vo nef. i  
gorno-toplivnoi lit-ry, Azerbaidzhanskoe otd-nie, 1950. 124 p.  
(Petroleum industry) (MIRA 11:10)

LUKIN, V.

Intensify the promotion of technological development. FTO no.10:  
13-15 0 '59. (MIRA 13:2)

1. Zamestitel' predsedatelya Gosudarstvennogo Komiteta Soveta  
Ministrov SSSR po avtomatizatsii i mashinostroyeniyu.  
(Research, Industrial)

LUKIN, V.; ZHUKOV, A.

Improving the accounting for labor at the Podol'sk Refractory Plant. Sots. trud 5 no.11:129-132 N '60. (MIRA 14:1)

1. Starshiy inzhener otдела Podol'skogo ogneupornogo zavoda (for Lukin). 2. Vostochnyy nauchno-issledovatel'skiy i proyektnyy institut ogneupornoy promyshlennosti (for Zhukov).  
(Podol'sk--Refractories industry--Accounting)

LUKIN, V.

Plus five hundred tons! Sov.shakht. 10 no.9:14 S '61.

(MIRA 14:8)

1. Desyatnik uchastka ventilyatsii shakhty "Polysayevskaya-1"  
v Kuzbasse.

(Kuznetsk Basin--Coal miners and mining--Labor productivity)



LUKIN, V. (Moskva); POLOZOV I., elektromekhanik (Gomel'skaya oblast')  
ZAMYATIN, K. (Sverdlovsk); NEYMAN, V. (Leningrad); GORBATYUK, S.  
(Grodno); BYKOV, L. (Moskva); SMIRNOV, B. (Gori); FEL'TSMAN I.  
(Leningrad)

Advices from experienced people. Za rul. 19 no. 2:14-15 F '61.  
(MIRA 14:4)

(Motor vehicles--Equipment and supplies)

LUKIN, V.

Using electronic calculating machines in accounting for labor  
and wages abroad. Sots.trud 8 no.4:148-150 Ap '63.

(MIRA 16:4)

(Electronic data processing)

LUKIN, V.

Initiative of workers of the agricultural combine industry. Mashino-  
stroitel' no.8:9 Ag '64. (MIRA 17:10)

LUKIN, V.; YAROVAYA, N., studentka (Voronezh); KAZ'MIN, N. (Tambov); KATS, I.

Everyday affairs of volunteer firemen. Pozh.delo 9 no.246 F '63.  
(MIRA 16:3)

1. Nachal'nik uchebnogo punkta Leningradskogo oblastnogo i gorodskogo dobvol'nogo pozharnogo obshchestva (for Kats).

LUKIN, V.

"Spring has brought the toy ships to our backyard" by Ed.  
Karpachou. Reviewed by V.Lukin. Rab.i sial. 38 no.7:14-15  
Jl '62. (MIRA 16:5)

(Karpachou, Ed.)

LUKIN, V., inzh.-konstruktor

The ALG-17(52) automatic ladder. Pozh.delo 7 no.7:24-25 J1 '61.  
(MIRA 16:11)

LUKIN, V.

Arm in arm. Sov. profsoiuzy 19 no.17:24-25 S '63. (MIRA 16:11)

1. Otdel glavnogo mekhanika Taganrogskogo kombaynovogo, zavoda.

LUKIN, V.A., inzh.

Improving the vacuum tightness of the VK turbines of the  
Leningrad Metalworking Plant. Elek.sta. 29 no.11:74-76  
N 158. (MIRA 11:12)

(Turbines)



POSPELOV, G.L., starshiy nauchnyy sotrudnik; LAPIN, S.S.; BELOUS, N.Kh.;  
KLYAROVSKIY, V.M.; KINE, O.G.; VAKHRUSHEV, V.A.; SHAPIRO, I.S.,  
starshiy nauchnyy sotrudnik; KALUGIN, A.S.; MUKHIN, A.S.; GARRETS,  
N.A.; SPEYF, Yu.A.; SELIVESTROVA, M.I.; ROTKEVICH, V.G.; BYKOV, G.P.;  
NIKONOV, N.I.; SAKOVICH, K.G.; MEDVEDKOV, V.I.; ALADYSHKIN, A.S.;  
PAN, F.Ya.; RUSANOV, M.G.; YAZBUTIS, E.A.; ROZHDESTVENSKIY, Yu.V.;  
SAVITSKIY, G.Ye.; PRODANCHUK, A.D.; LYSENKO, P.A.; LEBEDEV, T.I.;  
KAMENSKAYA, T.Ya.; MASLENNIKOV, A.I.; PIPAR, R.; DODIN, A.L.;  
MITROPOL'SKIY, A.S.; LUKIN, V.A.; ZIMIN, S.S.; KOREL', V.G.;  
DERBIKOV, I.V.; BARDIN, I.P., akademik, nauchnyy red.; GORBACHEV,  
T.F., nauchnyy red.; YEROFEYEV, N.A., nauchnyy red.; NEKRASOV, N.N.,  
nauchnyy red.; SKOBNIKOV, M.L., nauchnyy red.; SMIRNOV-YERIN, S.S.,  
nauchnyy red. [deceased]; STRUMILIN, S.G., akademik, nauchnyy red.;  
KHLIBNIKOV, V.B., nauchnyy red.; CHINAKAL, N.A., nauchnyy red.;  
SLADZYUK, P.Ye., red.toma; SOKOLOV, G.A., red.toma; BOLDYREV, G.P.,  
red.; VOGMAN, D.A., red.; KASATKIN, P.F., red.; KUDASHEVA, I.G.,  
red.izd-va; KUZ'MIN, I.F., tekhn.red.

[Iron-ore deposits of the Altai-Sayan region] Zhelezorudnye mesto-  
rozhdeniia Altae-Saianskoi gornoj oblasti. Vol.1. Book 1. [Geology]  
(Continued on next card)

POSPELOV, G.L.---(Continued) Card 2.

Geologia. Otvetstvennyi red. I.P. Bardin. Moskva. 1958. 330 p.  
(MIRA 12:2)

1. Akademiya nauk SSSR. Mezhdovedomstvennaya postoyannaya komissiya po zhelezu.
2. Postoyannaya mezhdovedomstvennaya komissiya po zhelezu Akademii nauk SSSR (for Pospelov, Shapiro, Sokolov).
3. Zapadno-Sibirskiy filial Akademii nauk SSSR (for Vakhrushev, Pospelov.)
4. Zapadno-Sibirskoye geologicheskoye upravleniye (for Sakovich).
5. Krasnoyarskoye geologicheskoye upravleniye (for Pan).
6. Zapadno-Sibirskiy geologo-razvedochnyy trest Chermetrazvedka (for Prodanchuk).
7. Sibirskiy geofizicheskiy trest (for Pipar).
8. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut (for Dodin).
9. Gornaya ekspeditsiya (for Mitropol'skiy).
10. Gornoye upravleniye Kuznetskogo metallurg.kombinata (for Lukin).
11. Tomskiy politekhnicheskiy institut (for Zimin).
12. Sibirskiy metallurg.institut (for Korel').
13. Trest Sibneftegeofizika (for Derbikov). (Altai Mountains--Iron ores) (Sayan Mountains--Iron ores)



LUKIN, V.A.

10(4); 21(5); 24(8) PHASE I BOOK EXPLOITATION SOV/2457

Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po primeneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniya v narodnom khozyaystve i nauke. 2d. Moscow, 1957

Teplotekhnika i gidrodinamika; trudy konferentsii, tom. 4 (Heat Engineering and Hydrodynamics; Transactions of the All-Union Conference on the Use of Radioactive and Stable Isotopes and Radiation in the National Economy and Science, Vol 4). Moscow, Gosenergoizdat, 1958. 88 p. Errata slip inserted. 2,500 copies printed.

Sponsoring Agencies: Akademiya nauk SSSR, and USSR. Glavnoye upravleniye po ispol'zovaniyu atomoy energii.

Eds.: M. A. Strykovich (Resp. Ed.), G. Ye. Kholodovskiy, and M. S. Pechayev; Ed. of Publ. House: L. N. Sinel'nikova; Tech. Ed.: M. I. Borunov.

PURPOSE: This collection of articles is intended for scientists and laboratory workers concerned with the use of radioactive and stable isotopes.

COVERAGE: This collection of papers deals with the application of radioactive and stable isotopes as measuring tools in various types of scientific investigation. No personalities are mentioned. References are given after some of the articles.

2. Bartolomey, G. G., Ya. G. Vinokur, V. A. Kolokol'tsev, and V. I. Pechukov. Use of Gamma Rays for Studying the Process of Diffusion 9
3. Kutateladze, S. S., and V. N. Moskviicheva. Use of Gammara-di-scopy for Studying the Hydrodynamics of a Multifluid System 12
4. Pchekavkin, P. G., and M. A. Shapkin. Method of "tagged" Atoms for Investigating Water and Steam Content in Surface Boiling of a Fluid 16
5. Kudryatsev, V. S. Determining the Specific Surface Area of Quartz and Cement Powders by the Sorption Method With the Use of "tagged" Atoms 20
6. Moskin, V. M., and I. I. Rubakova. Use of Radioactive Isotope 28 for Studying Sulfate Corrosion of Concrete
7. Tsytoyevich, M. A., V. I. Pechonitskiy, and V. A. Lukin. Methods for Determining the Density and Moisture Content of Soils With the Aid of Radioactive Emissions 33
8. Polozova, L. G., and R. P. Revzman. Study of the Processes of Moisture Transfer in Building Materials by Means of Gammara-di-scopy 38
9. Strykovich, M. A., I. M. Khaybullin, and L. K. Kholov. Use of Radioactive Isotopes for Investigating the Solubility of Salts in Water Vapor at High Pressures 41
10. Stepan, L. S., A. Ya. Antemy and A. V. Surnov. Investi-gation of the Characteristics of Vapor at a Pressure of 195 atm. With the Aid of Radioactive Isotopes 46
11. Dubrovskiy, V. A. Use of Radioactive Isotopes for Observing the Motion of the Molten Glass Mass in Glass Furnace Tanks 52
12. Rakhinskiy, V. V. Use of Radioactive Isotopes in Studying the Filtration of Fluids Through Porous Media 57
13. Karpanovskaya, P. I., and A. Ya. Pchulin. Radioisotope Methods for Investigating Flow Processes of Fluids in a Porous Medium 62
14. Boris, M. A., L. S. Zharbin, V. S. Kaminskiy, and L. L. Korzak. Investigation of the Hydrodynamics of a Fluid in the Centrifugal Motor of a Settling Centrifuge with the Aid of Radioactive Isotopes 67
15. Volaryovich, M. P., M. V. Churayev, and P. Ya. Miskov. Invest-igations of the Motion of Water in Pipes Under Laboratory and Field Conditions With the Use of Radioactive Isotopes 72
16. Arhangel'skiy, M. M. Use of Radioactive Isotopes for Invest-igating Suspensions of River Silt 78
17. Yarmik, A. I., and A. S. Shubin. Use of Radioactive Isotopes for Investigating the Mechanism of the Drying Process 85

LUKIN, V. A., Cand Tech Sci (diss) -- "The moisture conditions of soils in the aeration zone and its effect on construction". Moscow, 1960. 22 pp (Min Higher and Inter Spec Educ RSFSR, Moscow Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev), 200 copies (KL, No 15, 1960, 135)

LUKIN, V.A., kand.tekhn.nauk

Increase in the soil moisture of foundations of buildings as a  
result of building there. Prom.stroi. 40 no.4:44-45 '62.

(MIRA 15:5)

(Soil moisture)

BIRYUKOV, A.A.; LUKIN, V.D.; FEDOROVA, R.Ye.

India ink for making proofreader's corrections on "viniprose"  
positives. Geod. 1 kart. no. 11:62 N '60. (MIRA 13:12)  
(Map printing) (India ink)

ANDRIYEVSKIY, A.I.; ANTANOVICH, A.V.; BOGATYREV, N.A.; GLUSHCHENKO, I.P.;  
GUBENKO, T.P.; ZAMORA, Ya.F.; KARANDEYEV, K.B.; LUKIN, V.I.; LUKIN,  
N.I.; MAKSIMOVICH, N.G.; MOZER, V.F.; PETRENKO, S.I.; PAPERNIY, Ye.A.;  
PRIVALOVA, K.A.; SITNITSKIY, Yu.I.; STASIKOV, Ya.f.; SHCHEPANKEVICH,  
B.P.; CHUCHMAN, T.S.; YAGELLO, I.M.; BRILINSKIY, B.M. i dr.

G.E. Krushel'; obituary. Izv.vys.ucheb.sav.; energ. no.10:147  
0 '58. (MIRA 11:12)

(Krushel', Georgii Evgen'evich, 1912-1958)



LUKIN, V. I.

USSR/Farm Animals - Honey Bees.

Q-8

Abs Jour : Ref Zhur - Biol., No 1, 1958, 2668

Author : V.I. Lukin

Inst : -

Title : Electric Heating of Bee Hives.

Orig Pub : Pchelovodstvo, 1957, No 4, 17-21

Abstract : It was established that in a bee-hive a temperature of 34-36° is maintained in the area where the young bees are kept, and a temperature of 16-22° in the area where the working bees are located. Thus not the entire bee-hive has to be heated but only in places where heat is needed. The area inhabited by the young bees is heated by means of an electric coil which is fastened along the outside perimeter of the comb frame and which maintains a temperature which does not exceed 45°. By using this method, a number of bees were freed from their task of keeping the young bees warm. Generally speaking, in

Card 1/2

Lukin, V. I.

"Electric Transmission as a Progressive Type Transmission for Automobiles." Sub 23 Jun 47, Moscow Order of the Labor Red Banner Higher Technical School imeni N. E. Bauman

Dissertations presented for degrees in science and engineering in Moscow in 1947.

SO: Sum.No. 457, 18 Apr 55

LUKIN, V.I., dotsent, kand.tekhn.nauk

Electric recording device used in road tests of automobiles. Izv.vys.ucheb.zav.; mashinostr. no.3:115-123 '59.  
(MIRA 13:3)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni N.Ye.Baumana.

(Recording instruments)  
(Automobiles--Testing)

LUKIN, V.I.

BELYAYEV, V.N., dots., kand. tekhn. nauk; BOGATYREV, I.S., dots.,  
kand. tekhn. nauk; BULANZHE, A.V., dots.; VYBORNOV, P.V.,  
st. prepod.; GADOLIN, V.L., dots., kand. tekhn. nauk;  
GOFMAN, E.I., st. prepod.; DROZDOV, N.A., dots., kand.  
tekhn. nauk; ZAYTSEVA, L.I., inzh.; IVANOV, V.N., dots.,  
kand. tekhn. nauk; KOROVIN, B.I., dots., kand. tekhn. nauk;  
LUKIN, V.I., dots., kand. tekhn. nauk; MORIN, I.S., dots.,  
kand. tekhn. nauk; OGRINCHUK, I.A., inzh.; PALCHKINA, N.V.,  
inzh.; POLYAKOV, D.G., dots.; PARGIN, D.P., kand. tekhn. nauk;  
RASPOPOV, A.G., st. prepod.; RESHETOV, D.N., prof., doktor  
tekhn. nauk; STOLBIN, G.B., dots., kand. tekhn. nauk, retsenzent;  
KASPEROVICH, N.S., inzh., red.; SMIRNOVA, G.V., tekhn. red.;  
UVAROVA, A.F., tekhn. red.

[Machine parts; atlas of designs] Detali mashin; atlas kon-  
struksii. Moskva, Mashgiz, 1962. 346 p. (MIRA 15:3)

1. Kafedra "Detali mashin" Moskovskogo vysshogo tekhnicheskogo  
uchilishcha im. Baumana (for all except Stolbin, Kasperovich,  
Smirnova, Uvarova).

(Machinery--Design)

44996

S/135/63/000/002/008/015  
A006/A101

/ 2300

AUTHORS: Gubenko, T. P., Doctor of Technical Sciences, Batranin, Yu. Ye., Kirpatovskiy, S. I., Lukin, V. I., Candidates of Technical Sciences, Rybakov, V. V., Fal'kevich, V. P., Engineers

TITLE: Automatic quality control of spot welding by infrared radiation

PERIODICAL: Svarochnoye proizvodstvo, no. 2, 1963, 25 - 27

TEXT: In 1960 - 1961, the authors have been studying at the L'vov Polytechnic Institute the correlation between infrared radiation and the welding process and the quality of the weld joints produced. The results obtained were used to develop an automatic device for quality control of spot welding during the welding process by the intensity of the infrared radiation flux which is irradiated from the annular electrode-adjacent zone of the part to be welded. When the given infrared radiation level, corresponding to a given diameter of a spot, has been attained, the welding current is switched-off. The machine consists of the measuring head and the measuring unit, which are described and illustrated. The device was tested on spot-welding machine WP 62 d/60 with up to 500 kg elec-

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trode compression force. The welding current attained 18 kamp. Special experimental welding tests were performed; optimum conditions were not observed, i.e. the current and the electrode compression force were lowered or increased, and the methods of preparing the specimens varied. The main properties of the new machine were revealed by investigating the dependence of the weld joint strength and the dimensions of the cast nucleus upon the parameters of the welding conditions and the preparation of the specimens. It was found that the scattering of results in the breaking force per welded spot was only +6% at varying compression force of the electrodes. Analogous results were obtained when the welding current was changed. The strength of the weld joint was 2,600 kg on the average for 2.5 mm thick plates and varied within +8%. The tests show that high stability of welding one spot is assured, independent of the changes in welding conditions, parameters and preparation of specimens. There are 5 figures

ASSOCIATION: L'vovskiy politekhnicheskii institut (L'vov Polytechnic Institute)  
(Rybakov)

Card 2/2

GUBENKO, T.P., doktor tekhn.nauk; BATRANIN, Yu.Ye., kand.tekhn.nauk; KIRPATOVSIIY,  
S.I., kand.tekhn.nauk; LUKIN, V.I., kand.tekhn.nauk; RYBAKOV, V.V., inzh.;  
FAL'KEVICH, V.P., inzh.

Automatic quality control of spot welding by infrared radiation.  
Svar. proizv. no.2:25-27 F '63. (MIRA 16:2)

1. L'vovskiy politekhnicheskii institut (for Rybakov).  
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(Infrared rays—Industrial applications)

LUKIN, V.I.; FEDULOV, I.V.

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(Electric locomotives)



ORSHANSKIY, D.L., gl. red. ARUTYUNOV, K.B., red.; VORONOV, A.A., red.;  
KARANDEYEV, K.B., red.; KARIBSKIY, V.V., red.; KRASIVSKIY,  
S.P., red.; KULEBAKIN, V.S., red.; LOGINOV, L.I., red.;  
LUKIN, V.I., red.; MALOV, V.S., red.; PAVLENKO, V.A., red.;  
PETROV, B.N., red.; RAKOVSKIY, M.Ye., red.; SMAGLY, L.V.,  
red.; SMIRNOV, A.D., red.; SOTSKOV, B.S., red.; STEFANI,  
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red.; LEONOVA, Ye.I., tekhn. red.

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(MIRA 16:3)

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BELYAYEV, V.N., dots., kand. tekhn.nauk; BOGATYREV, I.S., kand. tekhn. nauk; BULANZHE, A.V., dots.; VYBORNOV, P.V., st. prepod.; GADOLIN, V.L., dots., kand. tekhn. nauk; GOFMAN, E.I., dots.; DROZDOV, N.A., dots., kand. tekhn.nauk; ZAYTSEVA, L.I., inzh.; IVANOV, V.N., dots., kand. tekhn. nauk; KOROVIN, B.I., dots., kand. tekhn. nauk; LUKIN, V.I., dots., kand. tekhn.nauk; MORIN, I.S., dots., kand. tekhn.-nauk; OCRINCHUK, I.A., inzh.; PALOCHKINA, N.V., inzh.; POLYAKOV, D.G., dots.; PARGIN, D.P., kand. tekhn.nauk[deceased]; RASPOPOV, A.G., st. prepod.; RESHETOV, D.N., prof., doktor tekhn. nauk; KASPEROVICH, N.S., inzh., red.; TIKHANOV, A.Ya., tekhn. red.

[Machine parts; atlas of designs] Detali mashin; atlas konstruksii. Izd.2., perer. i dop. Moskva, Mashgiz, 1963.363 p.  
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1. Kollektiv kafedry "Detali mashin" Moskovskogo vysshego tekhnicheskogo uchilishcha im. Baumana (for all except Kasperovich, Tikhonov).

(Machinery--Design and construction)

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Tadzhik SSR. Department of Agr and Biol Sci ). (KL, 1-61, 201)