

S/109/62/007/008/007/015
D409/D301

9.1300

AUTHOR: Lyubimov, L.A.

TITLE: Gyrotropic-dielectric elliptical waveguide

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 8, 1962,
1332-1339

TEXT: An approximate theory of wave processes is developed, which takes place inside and near an elliptical ferrite bar (the gyrotropic-dielectric medium). Numerical calculations were carried out for a ferrite with eccentricity $e = 0.648$, and parameters ϵ and μ , typical for ferrites which operate under weak longitudinal-magnetization conditions; (the problems considered are related to the operating conditions of ferrites in phase inverters). The Maxwell equations for the interior of the ferrite are transformed into 2 biharmonic wave equations. The solution of these equations is expressed in terms of Mathieu functions. The formulas for the external field are adopted from the references. The parameters used in the calculations, correspond to actual parameter values of phase-

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inverters; yet the results obtained illustrated generally the nature of wave processes in gyrotropic elliptical waveguides. The conditions at the boundary ferrite-medium are set up; thereby approximate formulas are used, which leads to a considerable simplification. The dispersion characteristics, obtained by the grapho-analytic method, are shown in a figure; the dispersion equation was obtained from the determinant of the system of equations for the boundary conditions. Discussion of results: The waveguide bifurcations, resulting from two different reasons (the anisotropy of the elliptical section and the gyrotropic properties of the medium) join pairwise. This explains the experimentally observed difference in the sign of phase-shifts in ferrite phase-inverters. From the dispersion characteristics follows that (under magnetization), the wave in the system should cancel out if a "consistent" type of wave is excited, and conversely. Another interesting property of the dispersion characteristics is the presence of a "dead zone" between two initial curves for the wave-number $k = 0$. This zone becomes narrower and vanishes altogether, as the elliptic section becomes circular. The dispersion curves show that large changes in the wavelength of the

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system (in weak fields) take place in the case of "consistent" waves. This is due to the addition of the effects, produced by the simultaneous increase of the parameters k and μ . In the case of "inconsistent" waves, these effects are subtracted. Conclusion: The structure and properties of the principal wave-types of the system were analyzed, proceeding from the graphs of the poles and zeroes of the determinant of the system. The dispersion characteristics of the two principal waves were calculated for parameters of the medium, corresponding to the properties of ferrite waveguide phase-inverters. There are 5 figures.

SUBMITTED: November 25, 1961

Card 3/3

LYUBIMOV, L.A.; SOKOLOV, V.M.

Gyrotropic circular dielectric wave guide. Izv. vys. ucheb. zav.; radiotekh. 6 no.2:136-142 Mr-Apr '63. (MIRA 16:6)

1. Rekomendovana kafedroy radioelektronnykh priborov Moskovskogo ordena Lenina i ordena Trudovogo Krasnogo Znameni vysshego tekhnicheskogo uchilishcha imeni N.E. Baumana.
(Wave guides)

L 19698-63
ACCESSION NR: AP3006455

BDS

S/0109/63/008/009/1530/1541

~~X~~ B

AUTHOR: Veselov, G. I.; Lyubimov, L. A.

TITLE: Theory of two-layer dielectric waveguide in a cylindrical screen

SOURCE: Radiotekhnika i elektronika, v. 8, no. 9, 1963, 1530-1541

TOPIC TAGS: waveguide, dielectric waveguide, two-layer dielectric waveguide

ABSTRACT: As the dispersion equation of a homogeneous system has a transcendental form and as only a few particular cases were solved and published, the authors try to find a general solution of the two-layer dielectric-waveguide problem. By using a cylindrical coordinate system and Neumann's functions, this dispersion equation is set up

$$p^2 (\chi - 1)^2 = [eF_n(x) - \chi Q_{En}(y)] [\mu F_n(x) - \chi Q_{Hn}(y)] \quad (11)$$

Consideration of the two limit cases (a) infinite screen and (b) screen in contact with the inner layer gives two dispersion equations (a) for an open waveguide and (b) for a metallic homogeneous-fill waveguide respectively. A grapho-analytical

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ACCESSION NR: AP3006455

solution of the dispersion equations for a number of numerical values of the dielectric constant resulted in obtaining dispersion characteristics of the "hybrid" $(HE)_{11}$ mode. Peculiarities and ranges of applicability of the hybrid-mode dispersion curves $(HE)_{11}$ and $(EH)_{11}$ in the critical region are considered; the critical region encompasses imaginary and low real values of the normalized wave constant. "The authors are deeply grateful to B. Z. Katsenelenbaum for his careful perusal of the manuscript and his valuable comments." Orig. art. has: 6 figures and 30 formulas.

ASSOCIATION: none

SUBMITTED: 20Mar62

DATE ACQ: 30Sept63

ENCL: 00

SUB CODE: CO

NO REF SOV: 002

OTHER: 006

Card 2/2

LYUBIMOV, L.A.

Calculation of electromagnetic fields using a sectional method.
Radiotekhnika 20 no.24-26 Ja '65. (MIRA 18:7)

1. Deystvitel'nyye chleny Nauchno-tekhnicheskogo obshchestva
radiotekhniki i elektrosvyazi imeni Popova.

LYUBIMOV, L.L.

VOVENS, A. S., KHAKH, P. A., LINDHART, M. P., MATHEWS, Val. A., LUBIMOV, L. L.,
SAVIN, I. A., SEMENOV, E. V., and SHAYKIN, V. G.

"Elastic Scattering of η -Mesons on Hydrogen on the 10^9 eV Scale"

Report presented at the Intl. Conference on High Energy Physics, Geneva,
4-11 July 1962

Joint Institute for Nuclear Research
Laboratory of High Energies, Dubna, 1962

LYUBIMOV, L.L.

VYKHOD, A. S., FIZ. T. N. A. ...
DANIN, I. A. ...

"Inelastic Interactions of α - ..."

Report presented at the Intl. Conf. on High Energy Physics
4-11 July 1971

Joint Institute for Nuclear Research
Laboratory of High Energies, JINR, U.S.S.R.

LYUBIMOV, L.M.

LYUBIMOV, L.M.; PODDUBNYI, S.A.; SAMSONOV, N.M.; AREST, V.I., redaktor.

[Manual of instructions on gravimetric prospecting with gravimeters]
Instruktsiia po gravirazvedke s gravimetrami. Utverzhdena E.T.Shatalo-
vym 24 iulia 1952 g. Moskva, Gos. izd-vo geol. lit-ry, 1952. 72 p.
(MLRA 7:4)

1. Russia (1923- U.S.S.R.) Ministerstvo geologii.
(Prospecting--Geophysical methods)

LYUBIMOV, L.M.
LYUBIMOV, L.M.

The VTR leveling instrument set for determining the effect of the
area relief when using gradienters. Approved. 1 okh. near 23 no.9:
29-34 S '57. (MIRA 10:11)

1. VTR.

(Leveling)

LYUBIMOV, L. M.

"Initial Results in the Use of Geophysical Prospecting"

(New Developments in the Methods and Techniques of Geological Exploration)
Leningrad, Gostoptekhizdat, 1958. 423 p. (Series: Its: Sbornik trudov I)

LYUBIMOV, L.M.

First results in using gravity gradiometers. Trudy VITR
no.1:131-144 '58. (MIRA 12:1)
(Gravimeter (Geophysical instrument))

L 45811-65 EWT(1)/EWG(v) Po-4/Pk/Pq-4/Pg-4 GW
 ACCESSION NR AML047285 BOOK EXPLOITATION

s/ 36
 B-11

Vasil'yeva, Inna Leonidovna; Vereda, Sergey Vasil'yevich; Gracheva, N. P.;
 Lyubimov, L. M.; Naumenko-Bondarenko, L. I.; Poddubnyy, S. A.; Abel'skiy,
 M. I.

Devices, repair, maintenance and operation of gravimetric apparatus (Ustroystvo, naladka, remont i ekspluatatsiya gravimetricheskoy apparatury), Moscow, Izd-vo "Nedra", 1964, 223 p. illus., biblic.

TOPIC TAGS: gravimetric equipment, geophysics, gravimetry

PURPOSE AND COVERAGE: This book describes the principles of tuning, regulation and error elimination of gravimetric equipment used in gravimetric exploration and other gravimetric work in the Soviet Union: quartz ground and bottom gravimeters, gradientometers, variometers, and densitometers. In addition, it describes the equipment of a quartz shop and methods of making and repairing the quartz system of quartz astatic gravimeters. The book is intended for engineers and technicians concerned with field gravimetry. It will be useful to students studying geophysics.

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Ch. III. Brief information on the repair and building of astatic quartz systems -- 71

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SUBMITTED: 09Mar64

SUB CODE: ES, EC

NO REF SOV: 019

OTHER: 001

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LYUBIMOV, L.G.

30431

Опыт организации плывучей работы с млечными скотом в совхозах. Труды Пискаревской
науч. - Исслед. Лаборатории разведения с. хв. животных, вып. 3, 1948, с. 76-82

SC: LETOPIS' No. 34

COUNTRY : USSR
CATEGORY : Farm Animals. Q
 : Cattle.
ABS. JOUR. : RZhBiol., No. 6, 1959, No. 25831
AUTHOR : Lyubimov, L. T.
INST. : AS USSR.
TITLE : The Effect of Udder Massage and Milk Yield
 Distribution upon the Future Milk Production
 of Calves and Heifers.
ORIG. PUB. : V sb.: Vopr. fiziol. s.-kh. zhivotnykh. M.-L.
 AN SSSR, 1957, 364-368
ABSTRACT : Within the 1947-1949 year period an experi-
 ment was conducted pertaining to the milk yield
 distribution of 7 East Friesian heifers which
 were fertilized for the first time at the age
 of about 35 months. An average of about 600
 liters of milk was drawn from one cow during
 her milking period. Milking of the heifers
 was discontinued 2 months before calving at
 which time the state of their general develop-
 ment and especially of the udder was good.
 Within the period of 300 days of their first

Card: 1/2

GUSHCHIN, B.F.; LYUBIMOV, M.A.

[Practices of cotton growers participating in the All-Union
Agricultural Exhibition] Opyt khlopkorobov-uchastnikov VSKHV.
Moskva, Gos.izd-vo selkhoz lit-ry, 1958. 67 p. (MIRA 12:4)
(Cotton growing)

LYUBIMOV, M.A. MEYELKIN, A.F.

Cathode Ray Tubes

Demonstration with a cathode tube. Fiz. v. shkole No. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, December 1953,² Unclassified.

MEFELKIN, A.F., (Ivanovo); LYUBIMOV, M.A., (Ivanovo).

Experiments with a cathode tube to explain the principle of electric current. Fiz.v shkole 13 no.3:63-65 My-Je '53. (MLR 6:6)
(Cathode ray tubes) (Electric currents)

LYUBIMOV, M.A.

METELKIN, A.F.; LYUBIMOV, M.A.

Study of electric spark discharges. Fiz.v shkole 14 no.2:52-54
Mr-Apr '54. (MLRA 7:2)

1. Gorod Ivanovo, Energeticheskiy institut im. V.I.Lenina.
(Electric discharges through gases) (Electrophorus)

LYUBIMOV, M.A.

Notes on entrance examinations. Fiz.v shkole 14 no.2:58-59
Mr-Apr '54. (MLRA 7:2)

1. Gorod Ivanovo, Energeticheskiy institut im. V.I.Lenina.
(Physics--Examinations, questions, etc.)

LYUBIMOV, M. A.

AID P - 1463

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 14/36

Author : Metelkin, A. F. and Lyubimov, M. A.

Title : The field as an aspect of matter (Discussion of the article by C. B. Bron, Elektrichestvo, No. 7, 1954)

Periodical : Elektrichestvo, 2, 57, F 1955

Abstract : The author agrees in principle with the approach of O. B. Bron, but criticizes some of his presentations, as, for example, the nature of heat which is presented as substance and in other places as field.

Institution: Ivanov Power Engineering Institute im. Lenin

Submitted : No date

LYUBIMOV, M. A.

AID P - 2361

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 25/30

Authors : Metelkin, A. F. and Lyubimov, M. A.

Title : A different formula for the Biot-Savart law (Concerning an article by V. M. Yuzhakov in this journal, No.8, 1954)

Periodical : Elektrichestvo, 5, 84-85, My 1955

Abstract : The authors consider that V. M. Yuzhakov did not present any "different" mathematical formulation of the law. This formula results from the usually accepted one. It does not bring anything new in the calculations of field intensity. Two Soviet references (1950-1951).

Institution: Ivanovsk Power Engineering Institute im. Lenin

Submitted : No date

PHASE I BOOK EXPLOITATION

390

Lyubimov, Mikhail L'vovich

Spai metalla so steklom (Metal-to-glass Fusion Joints) Moscow, Gosenergoizdat, 1957. 205 p. 7,000 copies printed.

Ed. (title page): Devyatkov, N. D., Corresponding Member, USSR Academy of Sciences; Ed. (inside book): Shamshur, V. I.; Tech. Ed.: Medvedev, L. Ya.

PURPOSE: This book is intended for engineering and technical personnel of the "electrical vacuum" industry and related manufactures and also may serve as a text-book for the course on "Electrovacuum Technology" given in vuzes and technical schools.

COVERAGE: The author presents basic information on the metal-to-glass fusion joining technique which plays an important role in modern production of electrical vacuum instruments. The book reviews problems in metal-to-glass fusion technology, gives an account of modern concepts of the metal-to-glass adhesion process, and methods of calculating

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thermal stresses in fused joints, as well as problems in design and manufacture of fused joints. There are 45 references of which 24 are Soviet, 18 English, 1 a translation from English, 2 German.

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BABAT, Georgiy Il'ich[deceased]; LEBEDEV, N.A., kand. tekhn. nauk;
LYUBIMOV, M.L., kand. tekhn. nauk; MEYEROVICH, E.A., prof.
red.

[Induction heating of metals and its industrial applica-
tions] Induktstomnyi nagrev metallov i ego promyshlennoe
primeneniye. Izd.2., perer. i dop. Moskva, Energiia, 1965.
551 p. (MIRA 18:9)

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S/058/60/000/010/009/014
A001/A001

Translation from: Referativnyy zhurnal, Fizika, 1960, No. 10, p. 311, # 27434

AUTHORS: Afonskaya, M.N., Gabyshev, V.S., Dunayev, S.A., Zusmanovskiy, S.A.,
Lyubimov, M.L., Mishkin, A.G., Shchelkunov, G.P.

TITLE: Twenty Megawatt Klystron Amplifier for 10-cm Band

PERIODICAL: Tr. Konferentsii po elektronike SVCh, 1957, Moscow-Leningrad, Gosenergoizdat, 1959, pp. 58 - 79

TEXT: The authors describe a 20-Mw pulse amplifying klystron of /KIU-1 (KIU-1) type operating on the 10-cm band. The design of a klystron constructed earlier in the USA was adopted as a basis for development. Drawbacks of the American klystron are described in detail. Essential changes were made in the method of fixing the cathode shank, in the design of the electron gun and resonators, as well as in the adjustment of the focusing system. These changes made it possible to increase the coefficient of current transmission up to 96-98% and the electric strength between the anode and the cathode, and to eliminate sparking in

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Twenty Megawatt Klystron Amplifier for 10-cm Band

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resonators. The changes mentioned made it possible to construct a device considerably excelling the klystron built in the USA in efficiency, operational reliability, service life, and other characteristics. The detailed description of the KIU-1 klystron and its individual assemblies is given.

O.P. Germanovich

Translator's note: This is the full translation of the original Russian abstract.

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SOV/5292

PHASE I BOOK EXPLOITATION

Konferentsiya po elektronike sverkhvysokoy chastoty

Trudy (Transactions of the Conference on Superhigh-Frequency Electronics) Moscow, Gosenergizdat, 1959. 271 p. 3,500 copies printed.

Sponsoring Agency: Vsesoyuznyy nauchnyy sovet po radiofizike i radio-tekhnike AN SSSR.

Eds. (Title page): I. S. Dzhitgiz, Professor, and Ye. G. Solov'yev, Candidate of Technical Sciences; Ed.: S. Akalunin; Tech. Ed.: G. Ye. Lariouov.

PURPOSE: This book is intended for scientific and technical personnel concerned with the development and operation of superhigh-frequency devices.

CONTENTS: The book contains a number of papers dealing with the more important problems of superhigh-frequency electronics. The papers were submitted at the Conference on Electronics called by the Vsesoyuznyy nauchnyy sovet po radiofizike i radioelekhnike AN SSSR (All-Union Scientific Council for Radiophysics and Radio Engineering, AN SSSR) and the Byuro novoy tekhniki MO SSSR (Bureau of New Engineering, Ministry of Defense, USSR) and held in Moscow in 1957; the reports deal with the following topics: problems of the theory and calculation of the delay systems of traveling-wave and backward-wave tubes, certain phenomena occurring in a cylindrical electron beam finding itself in a uniform magnetic field; the focusing of long beams by means of periodic magnetic and electric fields and the problems concerning reflex klystrons. Modern types of cathodes for superhigh-frequency devices are described. No personalities are mentioned. References accompany most of the reports.

Alomskaya, M. B., V. G. Gubshchev, A. S. Dunayev, S. A. Zumanovskiy, M. V. Kabanov, A. G. Piskun, and G. P. Shebalunov, Klystron Amplifier of the 10-Centimeter Band With 20-Milliwatt Pulse Power	58
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Shevchik, V. N., and Yu. D. Zharkov, Cascade Electron Bunching	226
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LYUBIMOV, M.P. and PETROV, A.M.

1931. Lozhnoparazit soboley protospirura muris (Gmelin, 1790).
Soyuzpushnina, No 17-19.

LYUBIMOV, M. P.

LYUBIMOV, M. P. "Noncommunicable diseases of the 'Panto' deer," Karakulevodstvo i
sverovodstvo, 1949, No 3, p. 64-67

SO: U-5240, 17Dec53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

NOVIKOV, V. K.)
LYUBIMOV M. P. (& MANYUSHEV, P. V. & ~~XXXXXXXXXXXX~~.)

Pantovaye olenevoistvo i bolezni pantovykh oleney (Reindeer Raising and Diseases of Reindeer). Moscow, izdatvo "Koksharova" knizh., 1981, 100 str., 12 il-
lustratsii na.

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1. LYUBIMOV, M. P.
2. USSR (600).
4. Deer
7. Branding marks. Kar. i zver. 5 no. 5, 1952

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

LYUBIMOV, M. P.

Pygarginema Cervi Nov. Sp. Ot Pyatinistogo Olenya - Cervus (Sica)
Nippon Nortulorum Swin, 1864. "Works on Helminthology" on the 75th Birthday
of K. I. Skryabin, Izdak, Akad. Nauk, SSSR, Moskva, 1953, p. 375

Central Sci. Res. Lab. with Animal Husbandry, Min. of State Farms, USSR

1. LYUBIMOV, M. P.
2. USSR (600)
4. Phenothiazine
7. Treating strongyiasis in maral bucks with phenothiazine. Kar. i zver. 6 No. 2, 1953.

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

LYUBIMOV, M.P.

Seasonal dynamics of elaphostrongyloidiasis and setariasis in
the maral and sika. Trudy Gel'm. lab. 9:155-156 '59.

(Nematoda) (Parasites--Deer) (MIRA 13:3)

LYUBIMOV, M. P., LYUFASHENKO, S. YA., and DANILOV, F. P. (Candidate of Veterinary Sciences, Professor, Veterinary Surgeon, All-Union Scientific-Research Laboratory of the Furbearing Animal Breeding Industry)

Material on the study of macrobacillosis in elks.

Veterinariya vol. 38, no. 9, September 1961, pp. 50.

Card 1 of 2

LYUBASHENKO, S.Ya., prof.; LYUBIMOV, M.P., kand. veter. nauk;
DANILOV, Ye.P., veterinarnyy vrach

Materials on necrobacillosis in marals and Japanese deer.
Veterinariia 38 no.9:50-53 S '61. (MIRA 16:8)

1. Vsesoyuznaya nauchno-issledovatel'skaya laboratoriya
pushnogo zverovodstva.

TROSKIN, A.V.; LYUBIMOV, M.V., master; SUCHKOV, I.M., master.

Increasing the speed of automatic looms with Jacquard attachments.
Tekst.prom. 16 no.3:41-42 Mr '56. (MLRA 9:6)

1.Nachal'nik tkatskego tsekha fabriki imeni Hegina (for Troskin).
(Looms) (Jacquard weaving)

LYUBIMOV, M.V.

Eliminate twisting of small hides and fur pelts in tanning
drums. Kozh.-obuv.prom. no.6:34 Ja '59. (MIRA 12:9)
(Leather--Machinery)

LYUBIMOV, M.V., inzh.

Improving the sole leather roller. Kozh.,-obuv.-prom. no.12:31
D '59. (MIRA 13:5)
(Leather industry--Equipment and supplies)

LYUBIMOV, M.V., inzh.

Improving the operation of diesel engines. Izobr. v SSSR 3 no.3:
13-14 Nr '58. (MIRA 11:3)
(Diesel engines)

LYUBIMOV, M.V., inzh.

Method for improving diesel engine operations. Kozh.-obuv.
prom. no.7:33 J1 '59. (MIRA 12:11)
(Diesel engines--Maintenance and repair)

LYUBIMOV, N.; KAPLUN, M.

Efficiency promoters improve production. Khol.tekh. 35 no.6:51-
57 N-D '58. (MIRA 12:1)

(Refrigeration and refrigerating machinery)

LYUBIMOV, N., inzh.

Cold storage plants of the Hungarian People's Republic. Khol.
tekh. 35 no.6:68-69 N-D '58. (MIRA 12:1)
(Hungary--Cold storage warehouses)

LYUBIMOV, N., inzh.; BURMAKIN, A., inzh.

New equipment for and mechanization of the processes of ice cream manufacture at the enterprises of the Office for Trade in Meat and Fish Products of the R.S.F.S.R. Khol.tekh. 37 no.3:29-32 My-Je '60. (MIRA 13:7)

1. Rosmyasorybtorg Ministerstva torgovli RSFSR.
(Ice cream industry--Equipment and supplies)

LYUBIMOV, N.A.; Prinimal uchastiye: POLEZHAYEV, N.G.

Nephelometer with automatic twenty-four-hour recording of
sulfur dioxide concentrations in the air. Pred. dop. kontsent.
atmosf. zagr. no.5:169-179 '61. (MIRA 15:3)

1. Iz Instituta obshchey i kommunal'noy gigiyeny imeni A.N.
Sysina AMN SSSR.

(AIR--ANALYSIS)
(SULFUR DIOXIDE)

LYUBIMOV, N. A. (Moskva)

Self-recording air analyzer with a chemical sulfur gas absorber.
Gig. truda i prof. zab. no.12:4^o-51 '61. (MIRA 1/:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut meditsinskikh
instrumentov i oborudovaniya.

(SULFUR DIOXIDE) (AIR SAMPLING APPARATUS)

LYUBIMOV, N.A.

Field nephelometer for quick detections of concentrations
of sulfur dioxide in the air. Uch. zap. Mosk. nauch.-issl.
inst. san. i gig. no.11:97-105 '63. (MIRA 17:1)

SHEMAKHANOV, Mikhail Mikhaylovich; LYUBIMOV, N.G., *otv.red.*; KOROVENKOVA,
Z.A., *tekhn.red.*

[Heating of mine shafts] Oteplenie shakhtnykh stvolov. Moskva,
Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960. 203 p.
(MIRA 13:7)

(Mine ventilation--Cold weather conditions)

SAFOKHIN, Mikhail Samsonovich; KATANOV, Boris Aleksandrovich; LYUBIMOV,
N.G., otv. red.; BOLDYREVA, Z.A., tekh. red.

[Operator of a drilling rig in an open pit] Mashinist burovogo
stanka na kar'ere. Moskva, Gos.nauchno-tekh.izd-vo lit-ry po
gornomu delu, 1961. 249 p. (MIRA 15:2)
(Boring machinery) (Strip mining)

VARSHAVSKIY, Anatoliy Mikhaylovich; PALEY, Boris Zakharovich; LYUBIMOV,
N.G., otv. red.; PROZOROVSKAYA, V.L., tekhn. red.

[Manual for pit-mine electricians] Spravochnik elektroslesaria
kar'era. Moskva, Gosgortekhnizdat, 1962. 303 p. (MIRA 15:7)
(Electricity in mining--Handbooks, manuals, etc.)

VARSHAVSKIY, Anatoliy Mikhaylovich, kand. te'hn. nauk; NOVOZHILOV,
Mikhail Galaktionovich, prof., doktor tekhn. nauk;
LYUBIMOV, H.G., otv. red.; IL'INSKAYA, G.M., tekhn. red.

[Improving the conditions for exploiting heavy-duty,
continuous striping machine units] Sovershenstvovanie re-
zhima ekspluatatsii moshchnykh vskryshnykh kompleksov ne-
preryvnogo deistviia. Moskva, Gosgortekhnizdat, 1963. 162 p.
(MIRA 16:10)

(Strip mining--Equipment and supplies)

LYUBIMOV, Nikolay Georgiyevich; SUROVA, Vera Arkhipovna;
MIROSHNICHENKO, Vadim Dmitriyevich

[Lamp room attendant] Rabochii lampovoi. Moskva, Nedra,
1965. 151 p. (MIRA 18:7)

LYUBIMOV, N. I.

4463. Posobiye po bureniyu razvedochnykh skvazhin stal'noy drob'yu-sechkoy. M., Gosgeoltekhizdat, 1954. 43S.5 Ill. 22 sm. (Vsesoyuz. nauch-issled. In-t miner. Syr'ya vims m-va geologii i okhrany nedr sssr). 5.000 ekz. i r. 20K. - avt. ukazan na 4-is. - (54-447) P

622.243.9

SO: Knizhnaya Letopsis', Vol. 1. 1955

Lyubimov N. I.

LYUBIMOV N. I.

~~Oshibki v diagnostike beremennosti i ikh preduprezdenie.~~ [Diagnostic
errors in pregnancy and their prevention/ Feldsher & akush. 3
Mar 50 p. 12-16.

1. NAI
CIML Vol. 19, No. 1 July 1950

LYUBIMOV, N.I., dotsent.

Local infiltration anesthesia in gynecology and obstetrics. Akush.1
gin. no.2:58-61 Mr-Ap '54. (MLBA 7:6)

1. Iz rodit'nogo doma No.10 (glavnyy vrach - zasluzhennyy vrach RSFSR
K.B.Sbusina) Moskva.
(Local anesthesia) (Genitourinary organs--Diseases)

SYROVATKO, F.A., professor; VOLKOV, Ya.N., zasluzhenny vrach RSFSR;
LYUBIMOV, N.I., dotsent.

Etiology, clinical aspects, and therapy of atonic (hypotonic)
hemorrhages in placental and early puerperal stages. Akush.i gin.
no.2:64-68 Mr-Apr '55. (MLRA 8:7)

(LABOR,
 third stage, with hypotonic hemorrh.)
(PUERPERIUM, complications,
 hemorrh., hypotonic)
(UTERUS, hemorrhage,
 in third stage & puerperium)
(HEMORRHAGE,
 uterus, in third stage & puerperium)

LYUBIMOV, M.I.; MOROZOV, V.I.

Boring practices with fine-cutting core bits designed by the All-
Union Scientific Institute for Research in Minerals. Rasved. i okh.
nedr 20 no.5:56-59 S-0 '54. (MIRA 10:1)
(Boring)

LYUBIMOV, N.I.; MOROZOV, V.I.

Role of the specific number of cutting edges on carbide-tipped
core bits. Razved. i ekh.nedr 20 no.6:32-34 '54. (MLRA 9:6)
(Boring)

LYUBIMOV, N.I.; MOROZOV, V.I.

Effect of drilling with a carbide-tipped cylindrical core bit on
the drilled footage. Razved. i okh.nedr. 22 no.2:28-35 F '56.
(Boring) (MLRA 9:6)

LYUBIMOV, N.I.; MOROZOV, V.I.

Data on resistance of rocks to steel shot boring. Razved.1 okh.
nedr 22 no.12:28-32 D '56. (MLRA 10:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo
syr'ya.

(Boring)

1-14-01/11/21/21
VOZDVIZHENSKIY, Boris Ivanovich, prof.; VOLKOV, S.A., dots.; FILATOV, B.S.,
dots.; LYUBIMOV, N.I., kand.tekhn.nauk; TRUSOV, I.A., inzh.;
BORAVLEV, V.A., nauchnyy red.; MEKBASOVA, N.B., red.; GUROVA, O.A.,
tekhn.red.

[Core drilling in prospecting] Razvedochnoe kolonkovoe burenie.
Pod obshchei red. B.I.Vozdvizhenskogo. Moskva, Gos. nauchno-
tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1957. 591 p. (MIRA 11:4)
(Boring)

AUTHORS: Lyubimov, N.I., and Korozov, V.I. SSSR 17-103-1-1012

TITLE: The Role of a Specific Quantity of Pig-Iron Shot in the Drilling of Bore Holes and the Method of Determination of Expected Resistance of Rocks (Rol' udel'nogo kolichestva chugunnoy drobi na zaboye skvazhin i metod opredeleniya szhidayemoy burimosti porod)

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 1, pp 25-27 (USSR)

ABSTRACT: Experiments made by the authors in drilling bore holes with pig-iron shots showed that optimal quantities of these shots per square cm of the face of the boring bit were different for each category of rock. The authors compiled a table (table 3) on which the quantities of pig iron shot necessary to obtain the maximum drilling speed were given for different categories of rock. An empirical formula was also compiled on the correlation between the drilling speed, drilling conditions and the rock resistance:

Card 1,2 $V_n = [(0,134 + 0,1386w) + (0,00017 - 0,011w/q)] \cdot K^{10-n}$

107 17.11.11-07/16

The Role of a Specific quantity of pig-Iron Shot in the Drilling of wire Holes and the Method of Determination of Expected Resistance of Rocks

in which: V - is the drilling speed in cm/min; n - the category of the rock hardness; w - the circular speed in m/sec; q - specific pressure in the bottom in kg/square cm of the boring bit face; and K - the coefficient of the resistance equal to 1.8. The above mentioned correlation is also expressed by a nomogram (figure 2). The comparison of the calculated speed and of the actual speed showed (table 4) that there were only minor discrepancies between them. There are four tables, one graph, one nomogram, and one Soviet reference.

ASSOCIATION: VIMS

Card 1/2

AVRUTSKIY, Abram Lazarevich; VOLKOV, S.A.; DEM'YANOVA, Ya.A.; KRIVENKO,
M.G.; LYUBIMOV, N.I.; MOROZOV, V.I.; TOKAREV, I.A.; VOZDVIZHNSKIY,
B.I., prof., doktor tekhn.nauk, otv.red.; SINIAGINA, Z.A., red.
izd-va; PROZOROVSKAYA, V.L., tekhn.red.; SHELYAR, S.Ya., tekhn.red.

[Handbook for core drillers] Spravochnik mestera kolonkovogo
burenia. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu
delu, 1960. 528 p. (MIRA 14:4)
(Core drilling)

ZHILKIN, N.G.; LYUBIMOV, N.I.; MOROZOV, V.I.

Approximate determination of changes in rocks based on their
physicomechanical properties. Razved. i okh. nedr 26 no.12:14-
17 D '60. (MIRA 13:12)

1. Vsesoyuznyy institut mineral'nogo syr'ya.
(Petrology)

LYUBLMOV, N.I.; MOROZOV, V.I.; FROLOV, A.A.

Physicomechanical properties of carbonatites and their role in
the distribution of rare metal mineralization. Razved. i okh.
nedr 29 no.5:30-33 My '63. (MIRA 16:7)

1. TsNIGRI i Vsesoyuznyy nauchno-issledovatel'skiy institut
mineral'nogo syr'ya.
(Carbonatites—Testing)

LYUBIMOV, N.I., uchitel'

Apparatus for demonstrating the volumetric content of
oxygen in the air. Khim. v shkole 16 no.5:89-90 3-0 '61.
(MIRA 14:9)

1. Shkola rabochey molodezhi No. 29, Moskva.
(Chemical apparatus) (Oxygen)

FREY, Lazar' Isayevich, prof.; LYUBIMOV, N.N., prof., red.; MEL'NIKOVA, Ye.E.,
red. izd-va; VASIL'YEVA, G.N., red. izd-va; VOLKOVA, Ye.D., tekhn.
red.

[International clearance and financing of foreign trade in capitalist
countries] Mezhdunarodnye raschety i finansirovanie vneshnei torgovli
kapitalisticheskikh stran. Izd.3., perer. i dop. Moskva, Vneshtorg-
izdat, 1960. 437 p. (MIRA 14:6)
(Foreign exchange) (Commerce)

FEDOROV, T.; LYUBIMOV, N.N., prof., otv. red.; FILIPPOVA, E., red.
izd-va; LEBEDEV, A., tekhn. red.

[Finances and credit of the Sudan] Finansy i kredit Sudana.
Moskva, Gosfinizdat, 1962. 119 p. (MIRA 15:3)
(Sudan—Finance)

BYSTROV, Fedor Petrovich, prof.; LYUBIMOV, Nikolay Nikolayevich, prof.;
RUDCHENKO, A.M., red.; YERKHOVA, Ye.A., tekhn. red.

[Ruble and dollar] Rubl' i dollar. Moskva, Izd-vo in-ta mezhdunarodnykh otnoshenii, 1961. 38 p. (MIRA 14:10)
(Money) (United States--Money)

LYUBIMOV, Nikolay Pavlovich; MAKAROVA, O.K., redaktor; MELNIT'YEV, A.M.,
tekhnicheskii redaktor

[Percentage tables; for three-digit divisors terminating in zero]
Tablitsy protsentnykh otnoshenii; pri trekhznachnykh deliteliakh,
okanchivaiushchikhsia na nul'. Moskva, Gos.statisticheskoe izd-vo,
1955. 94 p. (MIRA 9:3)

(Percentage--Tables, etc.)

POKROVSKIY, Nikolay Konstantinovich; principal uchashtiye: LYUBIMOV, N.P.,
glav. inzh.; TSIPERSON, A.L., red.; SUDAK, D.M., tekhn. red.

[Refrigerating equipment; manual for machine operators] Kho-
lodil'nye ustanovki; posovie dlia mashinistov, obsluzhivaiu-
shchikh smieshnye mashiny i apparaty. Izd. 2., dop. 1 perer.
Moskva, Gos. izd-vo torg. lit-ry, 1960. 283 p. (MIRA 14:5)

1. Rosmyasorybtorg Ministerstva torgovli RSFSR (for Lyubimov)
(Refrigeration and refrigerating machinery)

LYUBIMOV, N.N., prof., doktor ekon. nauk; PLETNEV, B.P., doktor ekon. nauk; SERGEYEV, S.D., dots., kand. ekon. nauk; MEN'CHIKOV, S.M., doktor ekon. nauk; BUZYKIN, Yu I., kand.ekon.nauk; DYUMULEN, I.I., dots., kand.ekon.nauk; IKONNIKOV, I.S., kand.ekon.nauk; KUZ'MIN, I.A., dots., kand.ekon.nauk; NESTEROV, M.V.; POPOV, A.N., dots., kand.ekon.nauk; SLOV'YEV, A.A., kand.ekon.nauk; STEPANOV, G.P., dots., kand.ekon.nauk; SHCHETININ, V.D., dots. kand. ekon. nauk; MOGILEVCHIK, A.Ye., red.; SHLENSKAYA, V.A., red.

[Modern international economic relations] Sovremennye mezhdunarodnye ekonomicheskie otnosheniia. Pod red. N.N.Liubimova. Moskva, Izd-vo "Mezhdunarodnye otnosheniia," 1964. 583 p.
(MIRA 17:5)

1. Moscow. Institut mezhdunarodnykh otnosheniy. 2. Predsedatel' Prezidiuma Vsesoyuznoy trgovoy palaty (for Nesterov).

LYUBIMOV, N.N., doktor ekon. nauk, prof.; FOKIN, D.F., kand.
ekon. nauk; SHERESHEVSKIY, M.G., doktor ekon. nauk, prof.;
PISKOPPEL, F.G., doktor ekon. nauk, prof.; DYUMULEN, I.I.,
kand. ekon. nauk; LOPATIN, G.S., doktor ekon. nauk, prof.;
MOGILEVCHIK, A.Ye., red.

[Foreign trade of the U.S.S.R., 1946-1963] Vnesnnaia tor-
govlia SSSR (1946-1963 gg.). Pod red. D.F.Fokina. Moskva,
IMC, 1964. 189 p. (MIRA 174)

1. Moscow. Institut mezhdunarodnykh otnosheniy. 2. Kafedra
mezhdunarodnykh ekonomicheskikh otnosheniy Moskovskogo go-
сударstvennogo instituta mezhdunarodnykh otnosheniy (for all
except Mogilevchik).

EXCERPTA MEDICA Sec 2 Vol 12/5 Physiology May 59

1892. ELECTRICAL CHANGES IN THE STRUCTURES OF THE CORTEX AND THE HYPOTHALAMUS IN THE PROCESS OF FORMATION OF A CONDITIONED FOOD REFLEX (Russian text) - Lyubimov N. N. Inst. of Brain, USSR Acad. of Med. Scis, Moscow - ZH. VYSSH. NERV. DEYAT. 1958, 8/4 (560-569) Graphs 4

An EEG study was made of various structures of the cortex and the hypothalamus when elaborating conditioned food reflexes in dogs. It was found that structures of the orbital, anterior sylvian convolutions, the lateral hypothalamic zone and the medial hypothalamic nucleus participated in the conditioned food reflex. A comparison of electrical changes occurring in the structures of the cortex and the

1842

hypothalamus under investigation during the isolated action of a conditioned stimulus and during eating shows that conditioned and unconditioned food excitations proceed differently in time, in intensity and in degree of generalization in the cortical and hypothalamic representations of the food reactions.

LYUBIMOV, N.N., TROFIMOV, L.G.

Method of registering electrical potentials of various structures of the cortex, subcortex, and stem in dogs in long-term experiments.
Zhur.vys.nerv.deiat. 8 no.4:617-624 JL-Ag '58 (MIRA 11:9)

1. Elektrofiziologicheskaya laboratoriya Instituta mozga ANU SSSR.
(BRAIN, physiology
registration of electrical potentials in various parts of cortex, subcortex and brain stem with implanted electrodes in dogs (Rus))

~~LYUBIMOV, N. N.~~ Master Med Sci (diss) -- "Electrophysiological investigation of various structures of the brain in the development of conditioned food reflexes". Moscow, 1959. 20 pp (Acad Med Sci USSR), 200 copies (KI, No. 7, 1959, 129)

LYUBIMOV, M. N.; TROFIMOV, L. G. (Moskva)

O funktsional'nykh vzaimootnosheniyakh kory polevogo mozga i retikulyarnoy formatsii pri vozdeystvii razlichnykh razdrazhiteley.

report submitted for the First Moscow Conference on Reticular Formation, Moscow, 22-26 March 1960.

LYUBIMOV, N.N.

Electrical changes in the structures of the cortex and hypothalamus during the elaboration of internal inhibition. Zhur. vys. nerv. deiat. 10 no. 5:756-763 S-O '60. (MIRA 13:12)

1. Elektrofiziologicheskaya laboratoriya Instituta mozga Akademii meditsinskikh nauk SSSR.
(CEREBRAL CORTEX) (HYPOTHALAMUS) (INHIBITION)

VERZILOVA, O.V.; MOSTUN, V.F.; LYUBIMOV, N.N.; ERDMAN, G.M.

Some data on the functional structure of the cortical representation of the auditory analyser. Trudy Inst. norm. i pat. fiziol. AMN SSSR 6: 18-19 '62 (MIRA 17:1)

1. Institut normal'noy i patologicheskoy fiziologii AMN SSSR, Institut mozga AMN SSSR i Akusticheskiy institut AN SSSR.

LYUBIMOV, N.N.

Pathways of conducting primary specific information in the visual
analysor system. Zhur. vys. nerv. deiat. 14 no.2:287-295 Mr-Ap
'64. (MIRA 17:6)

1. Electrophysiological Laboratory, Institute of Brain, U.S.S.R.
Academy of Medical Sciences, Moscow.

NAUMOVA, T.S.; LYUBIMOV, N.N.; TROFIMOV, L.G.

One of the mechanisms of appearance of the diffuse component of the conditioned response reaction. *Bul. eksp. biol. i med.* 56 no.7:3-8 J1'63 (MIRA 17:3)

1. Iz elektrofiziologicheskoy laboratorii (zav. - prof. L.G. Trofimov) Instituta mozga (direktor - deystvitel'nyy chlen AMN SSSR S.A. Sarkisov) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR A.V. Lebedinskim.

SECRET

CONFIDENTIAL

LYUBIMOV, N. S.

"Search for the Structure of Cotton Fabric With Most Effective
Fixing of Cut Nap." Sub 18 Dec 47, Moscow Textile Inst

Dissertations presented for degrees in science and engineering in
Moscow in 1947. *Cand. Tech. Sc.*

SO: Sum.No. 457, 18 Apr 55

LYUBI OV, N. S.

Lyubimov, N. S. - "The use of cotton gauze instead of silk in medical practice",
Nauch.-issled. trudy (Tsentr. nauch.-issled. inst khimicheskoy meditsiny),
Issue 2, 1949, p. 82-84.

SO: 1-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 1, 1953).

LYUBIMOV, N.S.

ROZANOV, F.M., kandidat tekhnicheskikh nauk; KUTEPOV, O.S.; ZHUFIKOVA, D.M.;
MOLCHANOV, S.V.; VASIL'YEV, F.F., retsenzent; LYUBIMOV, N.S., retsenzent.

[Structure and designing of fabrics] Stroenie i proektirovanie tkanei.
Pod red. F.M.Rozanova. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva
promyshlennykh tovarov shirokogo potrebleniia SSSR, 1953. 471 p.

(MERA 7:6)

(Textile industry)

LYUBIMOV, N.S., kand.tekhn.nauk; GENKINA, M.L., inzh.

Results of tests made on the Zul'tser looms. Tekst. prom. 18
no.9:31-33 S '58. (MIRA 11:10)
(Looms--Testing)

ALEKSEYEV, Konstantin Grigor'yevich; LYUBIMOV, N.S., kand. tekhn.
nauk, retsenzent; MEN'SHININA, V.A., red.

[Working principles and maintenance of the warping
machines for cotton manufacture] Ustroistvo i obsluzhi-
vanie meval'nykh mashin klopchatobumaznoy proizvod-
stva. Izd.2., perer. Moskva, Izd-vo "Legkaya industriya,"
1964. 170 p. (MIRA 17:8)

LYUBIMOV, N.S., kand.tekhn.nauk; MANUKHIN, A.S., starshiy nauchnyy sotrudnik,
kand.tekhn.nauk; SHUMARINA, A.V., inzh.; SLADKOPEVTSEVA, G.Ye., inzh.,
NARKUNAS, N.L., inzh.; MISHKETKUL', Ya.S.

Reviews and bibliography. Tekst.prom. 25 no.11:90-94 N 14,
(MIRA 18.12)

1. Rukovoditel' laboratorii. TSentral'nogo nauchno-issledovatel'skogo instituta khlopchatobumazhnoy promyshlennosti, Moskva (for Lyubimov).
2. TSentral'nyy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti, Moskva (for Manukhin).
3. Khimicheskaya laboratoriya Ivanovskogo melanzhevogo kombinata (for Sladkopevtseva, Shumarina, Narkunas).
4. Nachal'nik tkatskogo proizvodstva Novo-Noginskoy tkatskogo-otdelochnoy fabriki (for Mishketkul').

GRYUNER, V.S., professor; STAROSTINA, N.A., kandidat khimicheskikh nauk
REZHNIKOVA, S.B., nauchnyy sotrudnik; AFANAS'YEVA, N.V., nauchnyy
sotrudnik; OSMOLOVSKAYA, V.A.; NIKIFOROVA, G.V.; BUDORAGIN, M.G.,
proizv.instr. LYUBIMOV, P.V.

Testing the technical qualities of berry varieties for confection-
ary products. Trudy VKNII no.10:84-105 '54. (MLRA 8:9)
(Berries)

ANDREYEV, Ye.N., kand. med. nauk, red.; LYUBIMOV, P.V., red.;
MAZINA, Ye.G., red.; TEKUNOV, V.S., red.; SHCHEPETOV,
M.F., kand. med. nauk, red.; D'YACHKOVSKAYA, L.S., red.
izd-va; YEGOROVA, A.V., tekhn.red.

[Data of the Interprovince Conference on the Exchange of
Experience in the Organization of Antituberculosis Aid
in Regions of the Far North] Materialy Mezhoblastnogo
soveshchaniia po obmenu opytom organizatsii protivotu-
berkuleznoy pomoshchi v rayonakh Kraynego Severa. Iakutsk,
IAkutskoe knizhnoe izd-vo, 1963. 150 p. (MIRA 16:10)

1. Mezhoblastnoye soveshchaniye po obmenu opytom organizatsii
protivotuberkuleznoy pomoshchi v rayonakh Kraynego Severa.
2. Nachal'nik otdela protivotuberkuleznoy pomoshchi Minister-
stva zdravookhraneniya RSFSR (for Tekunov).
3. Ministr zdravoo-
okhraneniya Yakutskoy ASSR (for Lyubimov).

(SOVIET FAR NORTH—TUBERCULOSIS--PREVENTION)

LYUBIMOV, R.V.; OBORIN, B.I.; SHIRYAYEV, S.A.; DOBRIN, Z.Ye.; SHALKOV, K.
A.; YAKOVLEV, A.I.

Tunnel kiln operating on liquid fuel for burning fireclay articles.
Ogneupory 26 no.11:494-497 '61. (MIRA 17:2)

1. Vsesoyuznyy institut ogneuporov (for Lyubimov, Oborin, Shirayev).
2. Borovichskiy kombinat ogneuporov (for Dobrin, Shalkov, Yakovlev).

30(1)

SSV/25-52-4-18/44

AUTHOR: Lyutimov, S.

TITLE: On Siberian Soil (Na zemle sibirskoy)

PERIODICAL: Nauka i zhizn', 1959, Nr 4, pp 41-44 USSR.

ABSTRACT: The author deals with the opening up of virgin soil and waste land in Siberia, entailing the building of railroads and concentration of new villages and settlements. G.N. Fukan'ko, well-known Master of virgin soil harvests, describes his experience and success in this field. Today he is head of the tractor brigade in the kolkhoz "Druzhiba" ("Friendship"), Pospelikha Rayon Altay Krai, and last fall he harvested 138 puds of wheat from one hectare. Even better results have been achieved by the brigade of S.D. Pokhilenco from the Romanov Rayon - 142 puds, the brigade of A.A. Bekker from the Rubtsovsk Rayon - 154 puds and P.Pechenkin's brigade from the Yefor'yevskiy Rayon - 130 puds. Such results are only possible due to a close cooperation between agricultural workers and Soviet agronomists; e.g. T.S. Mal'tsev's method of plowing without a moldboard proved to be

Card 1/2

On Siberian Soil

SOV/45-10-4-14/41

a success and will be widely used. By the end of the new Seven-Year Plan the yields of these recently opened-up lands should have increased considerably, thus ensuring a grain supply for the Soviet population. There are 6 photos.

Card 2/2

LYUBIMOV, S. A.

SEVERUD, Fred, H.; MERRILL, Anthony; SEMENOV, Yu. V. [translator]; D'YAKONOV, A. I. [translator]; LYUBIMOV, S. A. [translator]; VOLODIE, M. V. [translator]; BUSANOV, P. I., redaktor; PAVLOV, V. S., redaktor; GERASIMOV, Ye. S., tekhnicheskiy redaktor

[Protection for people, buildings and equipment from the atomic bomb. Translated from the English.] Protivootonnaia zashchita liudei, zdaniy i oborudovaniya. Peresvod s angliiskogo I. V. Semanova i dr. Moskva, izd-vo inostrannoi lit-ry, 1955. 292 p.

(MLRA 9:3)

(Building, Bombproof) (Atomic bomb--Safety measures)