S/051/62/012/005/009/021
E075/E136

24 3500

AUTHORS: Maksimov, M.Z., and Rozman, I.M.

TITLE: On the transfer of energy in solid solutions

PERIODICAL: Optika i spektroskopiya, v.12, no.5, 1962, 606-609

TEXT: Expressions were obtained for the decay of light emission of donor molecules and for the quantum yield of the energy of transfer from donor to acceptor molecules. Decay function $N_D(t)$ was given by:

$$N_D(t) = N_D(0) \exp\left(-\frac{t}{\tau_o} - 2q\sqrt{\frac{t}{\tau_o}}\right) \quad (1)$$

and the quantum yield of the transfer given as:

$$\eta t = 2qe^{q^2} \int_q^{\infty} e^{-x^2}\,dx \quad (2)$$

where: τ_o = mean life of the excited molecules of donor in the absence of acceptor, and q = a value proportional to

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concentration n_A of acceptor molecules, which depends on their optical characteristics and dielectric properties of the medium (factor B) and is given by:

$$q = \left(\frac{2\pi}{3}\right)^{2/3} B\tau_o^{1/2} n_A = {}^{2}/_{3}\,\pi^{3/2} B\tau_o^{1/2} n_A s. \qquad (3)$$

$N_D(t)$ and η_t were evaluated for stationary molecules with different degrees of correlation between directions of the dipole moments of donor and acceptor molecules. It was found that Eqs. (1), (2) and (3) apply to solid solutions, but in Eq.(3) the numerical value of parameter s is different from $\sqrt{\frac{2}{3}}$. The postulate of Foerster-Galanin, stating that the molecules are points in space, is considered acceptable if the average distance between donor and acceptor molecules R is greater than the sum of their "radii" R_{12}. The critical concentration of acceptor, above which Eqs. (1), (2) and (3) do not apply, is $6.3 \times 10^{-3} R_{12}^{-3}$.

Card 2/2 SUBMITTED: April 6, 1961

S/048/62/026/001/015/018
B125/B104

AUTHOR: Maksimov, M. Z.

TITLE: Reactions with exchange of surface nucleons

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26, no. 1, 1962, 131 - 137

TEXT: The author describes only the principal stages of calculation of the differential exchange reaction cross sections, and presents the final results which were obtained under the following simplifying conditions: The exchange takes place with single odd surface nucleons, and single-particle states are excited. The interaction of colliding nuclei is given by $V(\vec{r} - \vec{r}') = -(\overline{4\pi\sigma_0}\, r^2/M)\delta(\vec{r} - \vec{r}')$. The Coulomb and nuclear interactions of the nuclear residues are neglected. Under these conditions, one obtains

$$\frac{d\sigma}{d\Omega_b} = \frac{\mu_a\mu_b}{(2\pi\hbar^2)^2} \cdot \frac{k_b}{k_a} \cdot \frac{4\pi\sigma_0\hbar^4}{M^2} |\overline{G_{ab}}|^2 |\overline{G_{AB}}|^2, \qquad (2),$$

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allowing for the corresponding center-of-mass correction for the colliding particles. Here, M is the nucleon mass; M_A, M_a, M_B and M_b are the masses of the nuclei A, a, B and b; $\vec{k}_a$ and $-\vec{k}_b$ are the momenta of the incident and departing particles in the center-of-mass system; σ_o is the free nucleon scattering cross section; $|\overline{G_{AB}}|^2$ and $|\overline{G_{ab}}|^2$ are the mean squares of the matrix elements of the transition of nuclei from A to B, and from a to b, respectively. For $\mu_a = \mu_b$ one has $\mu_a/M = \mu_b/M = M_A \cdot M_a/(M_A + M_a)$. The elimination of the portion due to pure exchange from the angular distribution of the departing particles is important for proving the existence of strongly correlated complexes in the nucl For the investigation of the nuclear excitation level, however, the exchange of surface nucleons is even more significant. Of the thre methods for calculating the direct reaction cross sections and the corresponding form factors (I - integration over the external and internal ranges of the nuclei involved; II - integration over the external range only; III - assumption that the nuclear interaction takes place either with the surfaces or with surface nucleons), the proper one can be

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Reactions with exchange of...

chosen only on the strength of experimental data. Most of the direct reactions are described best by II and III. The form factor

$$G_a^2 \sim J_0^2(QR_a) = \left(\frac{\sin QR_a}{QR_a}\right)^2; \qquad (4)$$

$$Q_d = |{}^1/_2\,\mathbf{k}_d - \mathbf{k}_p|; \quad Q_t = |{}^2/_3\,\mathbf{k}_t - \mathbf{k}_d|.$$

would follow from III for the deuteron or triton in the stripping and pickup reactions. For III, the elements of the transition matrix are given by

$$\overline{|G_{AB}|^2} = 4\pi \sum_{L=0}^{\infty} (2L+1)(2l_A+1)(2I_B+1)(l_A L\,00/l_B 0)^2 \times$$
$$\times W^2(l_A I_A,\ l_B I_B;\ {}^1/_2 L)\frac{4M^2}{\hbar^4 \cdot R_A}\gamma_{l_A}\gamma_{l_B} J_L^2\left(\frac{M_A - 1}{M_A} QR_A\right), \qquad (5).$$

A similar expression holds for $\overline{|G_{ab}|^2}$. For $QR_A \ll 1$, the analogy with the "long-wave approximation" is complete. $QR_A \ll 1$ is valid especially for

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Reactions with exchange of...

small angles if $E_a/M_a \gtrsim 0.4\ A^{2/3}$ Mev.. $|G_{AB}|^2$ and, consequently, also the probability that the nucleus remains in the state nucleon + core can be estimated from measurements of the exchange effects of the various incident particles with one and the same nucleus. If this probability is known, the form factors for other nuclei can be estimated. The angular distribution of the main group of tritons originating from the reaction $Be^9(He^3,t)B^9$ was satisfactorily calculated from the angular distribution of the reaction $(He^3,t) \rightleftharpoons (t,He^3)$, which is of particular interest for the present purpose. The influence of the exchange effect in the reactions (d,2n), (d,2p), and (d,pn) at the same nucleus can be estimated if $|\overline{G_{He^3,t}}|^2$, $|\overline{G_{d,2n}}|^2$, and the cross section for the reaction $(He^3,t) \rightleftharpoons (t,He^3)$ at any nucleus are known. The excitation cross section of collective levels in exchange reactions can also be calculated by A. M. Kondev's method (Izv. AN SSSR. Ser. fiz., 24, 903 (1960)). Ts. Sh. Chachibaya is thanked for calculations. There are 2 figures and 22 references: 8 Soviet and 14 non-Soviet. The four most recent references

Card 4/5

Reactions with exchange of .

S/048/62/026/001/0... B125/B104

to English-language publications read as follows: Nad. M. El Wafa M., Proc. Phys. Soc., 76, 185 (1960). Fairbairn W. M., Proc. Phys. S... 67A, 990 (1954). Goldberger M. D., Blank I. M., Phys. Rev. ... (1960); Ajzenberg F., Lauritsen T., Nucl. Phys. 11, 1 (1959); ... Middleton R., Proc. Phys. Soc., 74, 196 (1959)

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk GruzSSR (Physicotechnical Institute of the Academy of Sciences Gruzinskaya SSR)

Card 5/5

MAKSIMOV, M.Z.

Application of the one-dimensional shower theory to the calculation of intranuclear cascades. Izv. AN SSSR. Ser. fiz. 26 no.9:1172-1179 S '62. (MIRA 15:9)

1. Fiziko-tekhnicheskiy institut AN Gruzinskoy SSR.
(Nuclear reactions)

MAKSIMOV, M.Z.

Representation of the density of the nucleus and its potential by various analytic functions and their application in studying the interaction of particles with nuclei. Izv. AN SSSR. Ser. fiz. 27 no.10:1319-1328 O '63. (MIRA 16:10)

1. Fiziko-tekhnicheskiy institut AN GruzSSR.

KHULELIDZE, D.Ye.; CHIKHLADZE, V.L.; MAKSIMOV, M.Z.; ONUFRIYEV, V.G.

Excitation functions of (α,γ) and (α, n) reactions on tin isotopes. Zhur. eksp. i teor. fiz. 47 no.2:393-399 Ag '64.

(MIRA 17:10)

ACCESSION NR: AP4043607 S/0056/64/047/002/0393/0399

AUTHORS: Khulelidze, D. Ye.; Chikhladze, V. L.; Maksimov, M. Z.; Onufriyev, V. G.

TITLE: Excitation functions of the reactions (α, γ) and (α, n) on tin isotopes

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 393-399

TOPIC TAGS: excitation, alpha particle reaction, samarium, tellurium, tin, alpha cross section

ABSTRACT: In view of the unexpectedly large value of the cross section the authors obtained previously (Programma i tezisy* dokladov XIII yezhegodnogo soveshchaniya po yadernoy spektroskopii [Program and Topics of Papers of 13th Annual Conference on Nuclear Spectroscopy] AN SSSR, 1963), the excitation functions of the reactions $Sm^{112}(\alpha, \gamma)Te^{116}$, $Sm^{112}(\alpha, n)Te^{115}$ and $Sm^{114}(\alpha, n)Te^{117}$ were

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ACCESSION NR: AP4043607

measured in the alpha-particle energy range 10--20 MeV. The values obtained for the cross sections at the maximum were 8, 54, and 290 mb, respectively, with the cross sections of the (α, γ) reaction very large. A technique using stacks of foils was employed, with the energy of the alpha particles incident on each foil calculated from the range-energy ratio (N. Z. Maksimov, ZhETF, v. 37, 127, 1959). The corresponding cross sections are calculated on the basis of the compound-nucleus model. The probability of gamma emission is calculated both in the single-particle approximation and by means of formulas which take into account the giant resonance structure. In the latter case, the agreement with experiment is better. "In conclusion, the authors are deeply grateful to corresponding member AN SSSR B. S. Dzhelepov for useful advice and continuous interest in the work." Orig. art. has: 2 figures and 5 formulas.

ASSOCIATION: None

Card 2/5

ACCESSION NR: AP4043607

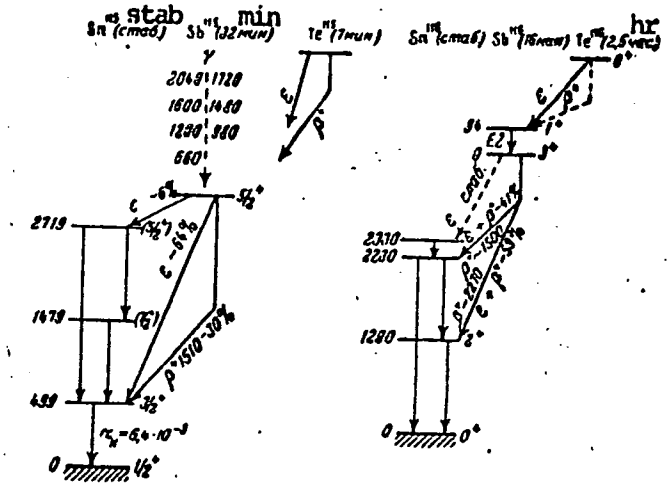
SUBMITTED: 13Aug63 ENCL: 02

SUB CODE: NP NR REF SOV: 005 OTHER: 011

Card 3/5

ACCESSION NR: AP4043607

ENCLOSURE: 01

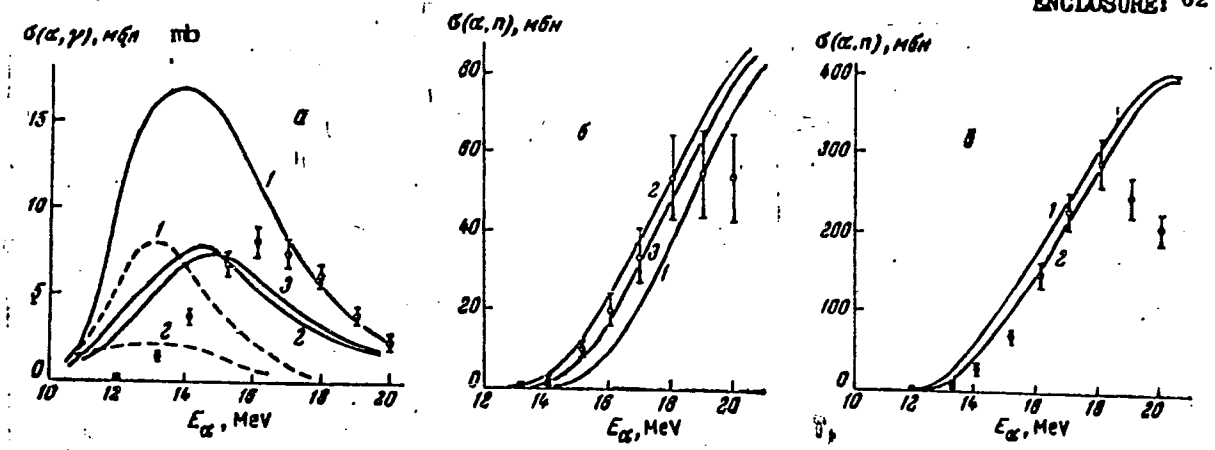


Decay schemes of Te^{115} and Te^{116} for the transition with 94 keV energy

Card 4/5

ACCESSION NR: AP4043607

ENCLOSURE: 02



Cross sections of reactions: a - $Sn^{112}(\alpha,\gamma)Te^{116}$, b - $Sn^{112}(\alpha, n)Te^{115}$, c - $Sn^{114}(\alpha, n)Te^{117}$ as a function of the alpha-particle lab. energy

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L 3896-66 EPA(s)-2/EWT(m)

AM5023891 BOOK EXPLOITATION UR/ 517.5:539.101

Agrest, Matest Mendeleyevich; Maksimov, Mikhail Zakharovich 8 Bri

Theory of incomplete cylindrical functions and their application (Teoriya nepolynkh tsilindricheskikh funktsiy i ikh prilozheniya) Moscow, Atomizdat, 1965. 350 p. illus., biblio. 2800 copies printed.

TOPIC TAGS: cylindrical function, incomplete cylindrical function

PURPOSE AND COVERAGE: This book gives a detailed elucidation of the application of incomplete cylindrical functions to problems connected with investigating the motion of charged particles in electric and magnetic fields, interactions of particles with atomic nuclei, transient processes in electrical circuits, and design of atomic reactors operating on fast neutrons. The authors state that this book is the first, to the best of their knowledge, to be published on this subject and apologize for incomplete and not too systematic selection of practical problems, also for the brevity of the bibliography. This book is intended for engineering physicists,

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electrical engineers, and aircraft designers, also teachers and students in VUZes.

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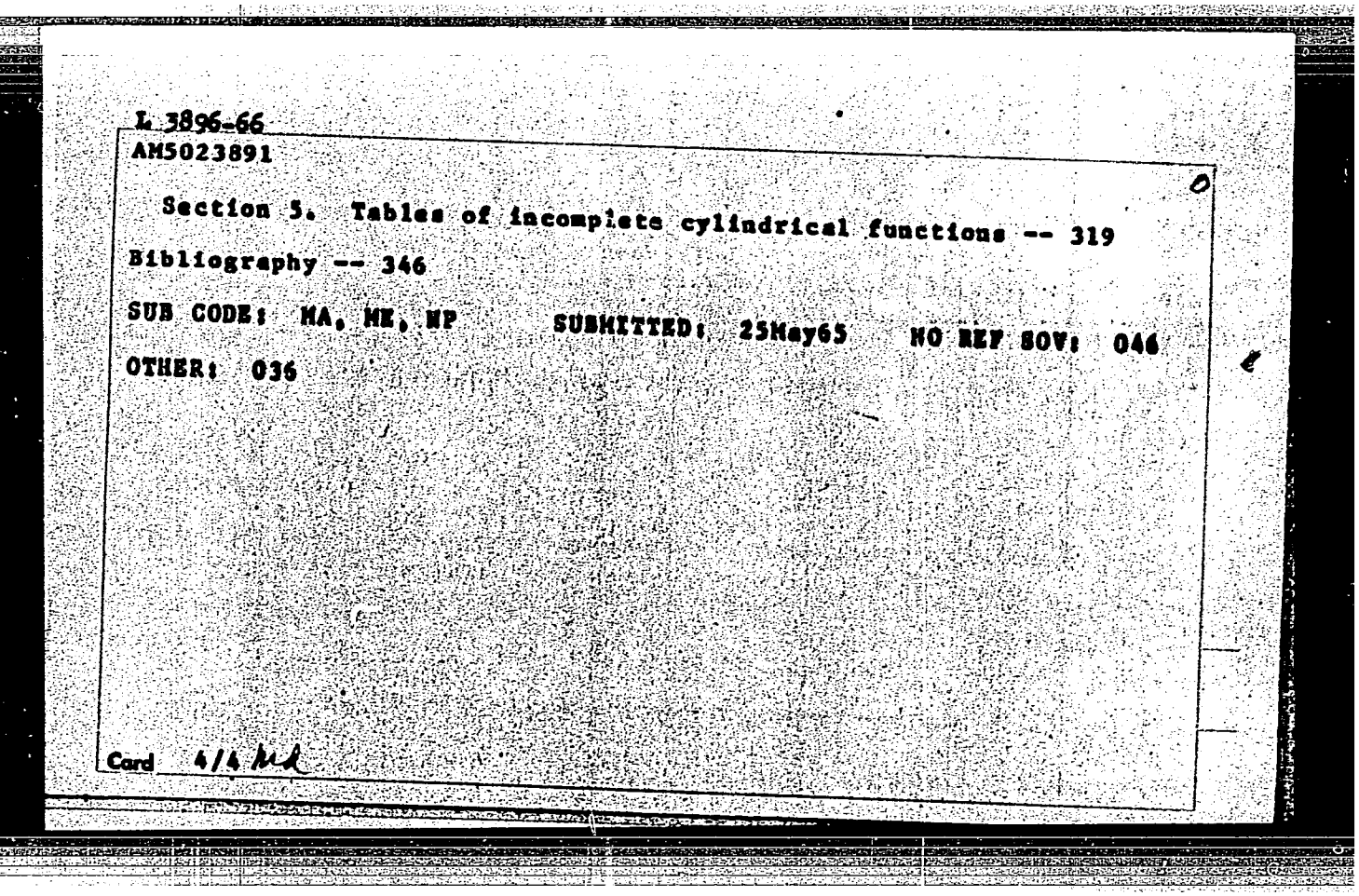

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Section 5. Tables of incomplete cylindrical functions -- 319

Bibliography -- 346

SUB CODE: MA, ME, NP SUBMITTED: 25May65 NO REF SOV: 046

OTHER: 036

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MAKSIMOV, N.

MAKSIMOV, N., slesar' tramvaynogo depo; BELOSTOTSKIY, I.A., glavnyy inzhener tramvaynogo depo im. Kirova, konsul'tant; TAMAROVICH, M.A., redaktor; GUROVA, O.A., tekhnicheskiy redaktor

[Pneumatic equipment works faultlessly] Vozdushnoe oborudovanie deistvuet bezotkazno. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1953. 33 p. (MLRA 7:9)
(Street railroads) (Compressed air)

MAKSIMOW, Nina [Maksimov, Nina] (Genf)

Data on the water household of Lake Geneva. Hidrologiai kozlony 43 no.6:519-520 D '63.

MAKSIMOV, M.A., general-mayor inzhenerno-tekhnicheskoy sluzhby.

Features of the operation of aeronautical equipment under winter conditions. Vest. Vozd. Fl. 41 no.12:58-64 D '58.
(MIRA 11:12)

(Airplanes--Maintenance and repair)

MAKSIMOV, N.A.

Study of topographic maps in an organized group. Geog.v shkole no.2:44-49 Mr-Ap '54. (MLRA 7:2)
(Maps)

MAKSIMOV, N.A.

Work with plans and maps. Geog.v shkole 20 no.4:49-55 Jl-Ag '57.
(MIRA 10:7)

1. Shkola No.554, Moskva.
(Map drawing--Study and teaching) (Mechanical drawing)

MAKSIMOV, N.A.

"Geography corner" in school. Geog. v shkole 23 no. 6:61-65 N-D '60. (MIRA 13:11)

1. 544-ya shkola g.Moskvy.
(Moscow--Geography--Study and teaching)

MAKSIMOV, N.A.

Studying the topic "Earth and its movement" in the fifth grade. Geog. v shkole 25 no.6:42-49 N-D '62. (MIRA 15:12)
(Astronomical geography--Study and teaching)

MAKSIMOV, N.A., aspirant

Experimental study of atrophic rhinitis in young pigs. Veterinariia 41 no.8:39-40 Ag '64. (MIRA 18:4)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

MAKSIMOV, N.A., aspirant

Etiologic role of trichomonads in infectious atrophic rhinitis of swine. Veterinariia 42 no.5:58 My '65. (MIRA 18:6)

1. Moskovskiy tekhnologicheskiy institut myasnoy i molochnoy promyshlennosti.

ANDRYUNIN, A.M.; MAKSIMOV, N.I.

Automatic pumping out of water from quenching stations.
Sbor. rats. predl. vnedr. v proizv. no.2:49-50 '61.
(MIRA 14:7)

1. Magnitorgorskiy metallurgicheskiy kombinat.
(Coke industry)

AID P - 4587

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 22/23

Author : Maksimov, N. K.

Title : Artillery armament of aircraft

Periodical : Vest. vozd. flota, 2, 91-96, F 1956

Abstract : On the basis of several American and British aviation periodicals the author reviews the armament of modern fighters and bombers. Several types of American and British aircraft, machine guns, cannons, rockets and missiles are mentioned. Three photos, 2 sketches, 1 table.

Institution : None

Submitted : No date

AID P - 5141

Subject : USSR/Aeronautics - training

Card 1/1 Pub. 135 - 26/26

Author : Maksimov, N. K., Engineer

Title : Devices for recording of projectiles when flying at aerial targets.

Periodical : Vest. vozd. flota, 10, 93-96, O 1956

Abstract : The author, on the basis of foreign literature, describes some devices used for recording of projectiles and missiles during the firing at aerial targets. One photo, 3 sketches.

Institution : None

Submitted : No date

AID P - 5454

Subject : USSR/Aeronautics - armament

Card 1/1 Pub. 135 - 31/31

Author : Maksimov, N. K., Engineer

Title : Six-barrel aircraft cannon

Periodical : Vest. vozd. flota, 1, 95-96, Ja 1957

Abstract : The author on the basis of foreign literature describes the construction and the use of a six-barrel aircraft cannon of "Vulcan" design.

Institution : None

Submitted : No date

MAKSIMOV, N.M., inzhener; PETROVA, V.V., redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Regulations concerning crew chiefs, masters, superintendents in construction work] Polozheniia o brigadire, mastere i proizvoditele rabot v stroitel'stve. Moskva, Gos.izd-vo lit-ry po stroit. i arkhit., 1957. 22 p. (MLRA 10:9)

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(Construction industry)

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(Electric engineering--Study and teaching)

MAKSIMOV, N.M.

Static phase transformer and experiments with it in the secondary school. Politekh. obuch. no.5:52-55 My '58. (MIRA 11:5)

1.Pedagogicheskiy institut, Yaroslavl'.
(Electric transformers)

MAKSIMOV, N.M.

Functioning model of a wind electric power plant. Politekh.obuch. no.12:67-68 D '58. (MIRA 11:12)

1. Yaroslavskiy gosudarstvennyy pedagogicheskiy institut.
(Electric power plants--Models)
(Physics--Study and teaching)

MAKSIMOV, N.M.

Working model of a water meter. Politekh.obuch. no.6:72-74 Je '59. (MIRA 12:12)

1. Yaroslavskiy pedagogicheskiy institut.
(Water meters)

KAMARDINKIN, N.P.; SHUVAYEV, A.S.; PALKIN, V.I.; NEMKOVA, A.S.; TARABAN'KO, P.I.; KHOLMSKIY, R.V.; GNIPP, L.V.; DOBASHIN, G.S.; FLEROVA, L.I.; MAKSIMOV, N.M.; RAFIYENKO, I.I.; PAL'MOV, I.I.; UVAROV, I.M.; DUBROVIN, P.Ye.; LIKHACHEVA, O.A.; UVAROVA, I.I.

Conference of the Teaching Staff and Students of the Moscow Geological Prospecting Institute. Izv. vys. ucheb. zav.; geol. i razv. 6 no.12:143-148 D '63 (MIRA 18:2)

KREPS, Ye.M.; BOLOTINSKIY, Ye.A.; GOSHTEYN, L.S.; MAKSIMOV, N.N.

Registering cathode oxyhemograph [with summary in English]. Vop.med. khim. 2 no.6:457-461 N-D '56. (MLRA 10:3)

1. Institut fiziologii imeni I.P.Pavlova AN SSSR, Leningrad.
(OXYGEN, in blood
saturation determ. by registering cathode oxyhemograph)

MAKSIMOV, N. N., Cand of Geol - Min Sci -- (diss) "Stratigraphy and Fauna of the Eastern Carpathian Paleogene," L'vov, 1959, 16 pp (Ministry of Higher and Secondary Special Education, Ukrainian SSR. L'vov State University im Iv. Franko) (KL, 7-60, 107)

RODIONOV, B.G.; MAKSIMOV, N.N.; KOSTYUNINA, G.P.

Complex automatic safety devices for heating plants. Gaz.prom. 5 no.8:29-32 Ag '60. (MIRA 13:10)
(Gas appliances--Safety measures)
(Automatic control)

RODIONOV, B.G.; MAKSIMOV, N.N.; KOSTYUNINA, G.P.

Automatic temperature control in gas-heated spaces. Gaz. prom. 6 no.9:25-28 '61. (MIRA 14:12)
(Gas--Heating and cooking)
(Automatic control)

KOSTYUNINA, G.P., inzh.; MAKSIMOV, N.N.

Temperature fluctuations in gas space heating using continuous action appliances. Ispol'. gaza v nar. khoz. no.2:87-102 '63. (MIRA 18:9)

1. Laboratoriya avtomatizatsii i telemekhanizatsii Saratovskogo gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta po ispol'zovaniyu gaza v narodnom khozyaystve.

MAKSIMOV, N.P.

Use of microfilming in foreign cartography [survey of foreign literature]. Geod. i kart. no.6:61-69 Je '63. (MIRA 16:9)
(Mikrophotography) (Cartography)

SHUMENKOV, Pavel Pavlovich; LEVCHENKO, Leonid Dmitriyevich; MAKSIMOV, N.P., nauchn. red.; GLAZUNOVA, Z.M., red.

[Ways of increasing labor productivity in housing construction] Puti povysheniia proizvoditel'nosti truda v zhilishchnom stroitel'stve. Moskva, Stroiizdat, 1964. 64 p. (MIRA 17:7)

16

SOURCE CODE: UR/0413/66/000/015/0094/0094

..., Ye.; ...ikov, V. S.; Ayzman, Yu. A.; Sokolinskiy, Ye. A.; ... A. I.; Fedorov, V. N.; Ivanov, A. M.; Malinskiy, S. A.; ..., V. V.; ..., V. Kh.; Vysotskiy, Yu. A.; Zamskiy, V. M.; Bystrov, V. V.; ..., V. V.; ..., I. V.; Yevzerov, D. A.; Germanov, Yu. G.; Maksimov, N. P.; ..., A. A.; ...alin, V. V.

ORG: none

TITLE: Seismic station. Class 42, No. 184466 [announced by "Neftepribor" Factory of the Instrument Manufacture Administration of Mosgorsovnarkhoz (Zavod "Neftepribor" Upravleniya priborostroyeniya Mosgorsovnarkhoza)]

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 94

TOPIC TAGS: seismologic station, seismologic instrument

ABSTRACT: This Author Certificate presents a seismic station containing a seismic signal detector, a recording amplifier unit, an oscillograph, a magnetic drum recorder, a channel reproduction unit, a control unit, a reproduction amplifier, a multichannel borehole probe, a drum with photographic paper, a retransmitting unit, and a power supply. To increase the reliability when transferring from operation with the method of reflected waves to the method of refracted waves, a filter unit is connected between the first and second stages of the recording amplifier unit. A

Card 1/2 UDC: 550.340.19

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ACC NR: AP6029933

modulator-demodulator unit and a reel type magnetic recorder are connected in series to the output of the recording amplifier unit. For operation with the method of refracted waves, the filter unit has frequency cutoffs of 7--30 hz, and for operation at sea--frequency cutoffs of 20--50 hz. To increase the reliability of the recorded data with operation by the method of regulated directional reception, a switching unit for the channels to be summed, a static correction unit, and a summing unit are connected in series between the magnetic drum recorder and the reproduction amplifier. To increase the reliability when transferring from operation with the method of reflected waves to seismic logging, a frequency selection unit is connected between the multichannel borehole probe and the magnetic drum recorder. To improve the quality of the recorded material, an electron beam unit for introducing static and dynamic corrections is connected between the reproduction amplifier and the drum with photographic paper.

SUB CODE: 08/ SUBM DATE: 05May65

Card 2/2

POPOV, I.V.; MAKSIMOV, N.S.

Modeling in engineering geology. Izv.vys.ucheb.zav.; geol.i razv. no.3:106-108 My '60. (MIRA 13:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Geological modeling)

MAKSIMOV, N.S.

Possibilities for economizing electric power used for municipal needs. Gor.khoz.Mosk. 34 no.2:17-18 F '60. (MIRA 13:6)

1. Zamestitel' nachal'nika gorodskoy elektroinspektsii Energosbyta "Mosenergo."
(Moscow--Electric utilities)

MAKSIMOV, N.V., starshiy tekhnik-leytenant.

Save time in refueling airplanes. Vest.Vozd.Fl. 40 no.7:75-76 Jl '57. (MIRA 10:11)
(Airplanes--Refueling)

137-58-1-625

MAKSIMOV, N. V.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 98 (USSR)

AUTHOR: Maksimov, N. V.

TITLE: The Condition of the Roll Surfaces in Cold Sheet Mills (O sostoyanii poverkhnosti valkov listovykh stanov kholodnoy prokatki)

PERIODICAL: Tr. Khar'kovsk. politekhn in-ta, 1957, Vol 9, pp 193-197

ABSTRACT: An investigation by means of prints establishes that there is a significant difference between the longitudinal and transverse roughnesses of rolls (both when new and when worn). The longitudinal roughness is more uniform in size The surfaces of cold rolling mill rolls become smoother with use.

V. D.

1. Rolling mills—Rolls 2. Rolls—Surface conditions

Card 1/1

SHARAPIN, Ye.F.; MAKSIMOV, N.V.

New notions about the coefficient of friction in case of plastic compression. Trudy KhPI 21 Ser.met. no.4:63-67 '59. (MIRA 14:7)
(Friction)

MAKSIMOV, N.V.

Investigating surface smoothness of rolling-mill rolls. Trudy KhPI 21 Ser.met. no.4:69-72 '59. (MIRA 14:7)
(Rolls (Iron mills)--Testing)

SHARAPIN, Ye.F. [deceased]; MAKSIMOV, N.V.

Using the upsetting of wedgelike specimens for the determination of friction coefficients. Izv. vys. ucheb. zav.; chern. met. 6 no.3:105-112 '63. (MIRA 16:5)

1. Khar'kovskiy politekhnicheskiy institut.
(Friction—Testing)

PODCHESOV, E.N.; STROYNOVSKIY, V.V.; VSTAVSKIY, L.I.; KURASOV, D.A.; CHUMAKOV, V.N.; SOROKIN, V.M., inzh., retsenzent; MAKSIMOV, N.V., kand. tekhn. nauk, red.; VOROB'YEVA, L.V., tekhn.red.

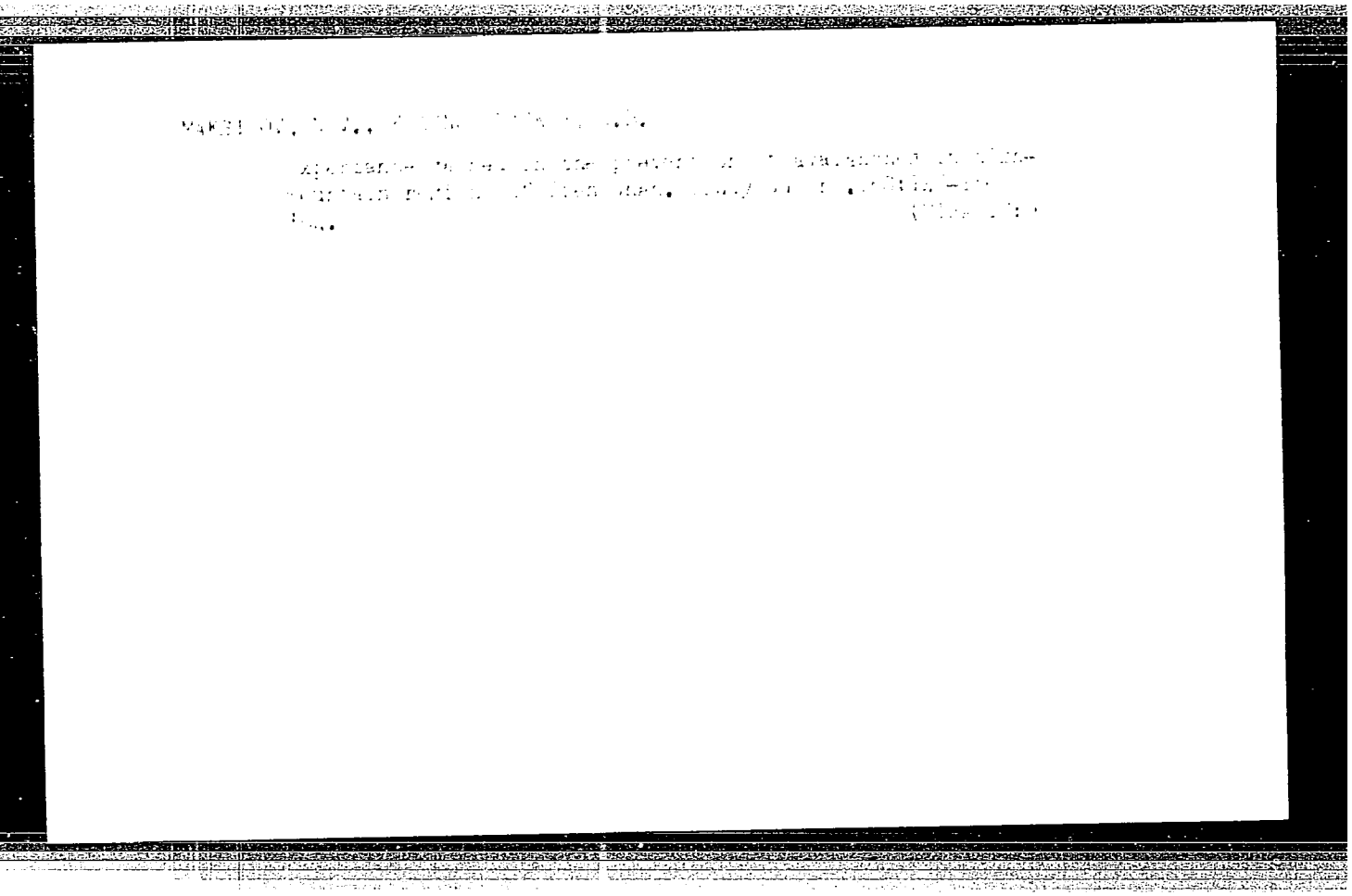
[Maintenance and repair of ChS2 and ChS3 electric locomotives; work practices in the "Oktiabr'" repair shop of the Southern Railroad] Obsluzhivanie i remont elektrovozov CHS3; opyt kollektiva depo "Oktiabr'" IUzhnoi zheleznoi dorogi. Moskva, Transport, 1964. 99 p. (MIRA 17:4)

[illegible]OV, Mikhail [illegible]; [illegible]EV, [illegible]; DANKEVICH, [illegible]ndr Br[illegible]islavovich; KA[illegible]CHKIN, [illegible]entin Ivanovich; [illegible], kand. tekhn. nauk, red.

[Locating and eliminating faults in the VL8 electric locomotive] [illegible] elektro[illegible] [illegible] Izd-v[illegible] 1964. [illegible]

MAKSIMOV, N.V., inzh.; NOGA, N.A., inzh.; MISHCHENKO, I.A., inzh.

Increasing the strength of drawing die blocks. Mashinostroenie no.5 S-O '64 (MIRA 18:2)



MAKSIMOV, N.V., inzh.

Studying the switch-on process of regenerative braking on the N8 electric locomotive. Trudy MIIT no.135:92-103 '61. (MIRA 15:1)
(Electric locomotives—Brakes)

GORNOV, O.F., kand.tekhn.nauk; MAKSIMOV, N.V., inzh.

Make fuller use of the potentials for electric power savings in the operation of electric multiple-unit trains. Zhel.dor. transp. 44 no.8:52-54 Ag '62. (MIRA 15:8)
(Electric railroads--Management)

KOLYCHEV, G.K.; LYUTTSAU, A.G., inzh., retsenzent; MAKSIMOV, N.V., kand. tekhn. nauk, red.; VASIL'YEVA, N.N., tekhn. red.

[Block systems of d.c. locomotives] Blokirovki na elektrovozakh postoiannogo toka. Moskva, Transport, 1964. 62 p. (MIRA 17:3)

MARCHENKO, Yuriy Valentinovich; MAKSIMOV, N.V., kand. tekhn. nauk, red.

[Maintenance and operation of VL60 and VL80 electric locomotives] Obsluzhivanie i ekspluatatsiia elektrovozov VL60 i VL80. Moskva, Transport, 1965. 255 p. (MIRA 18:2)

GORCHAKOV, Ye.V., kand.tekhn.nauk; MAKSIMOV, N.V., kand.tekhn.nauk, CHEREPASHENETS, R.G.

Reducing electric power consumption for train traction.
Zhel.dor.transp. 46 no.12.31-34 D '64. (MIRA 19:1)

1. Glavnyy inzhener lokomotivnoy sluzhby Moskovskoy zheleznoy dorogi (for Cherepashenets).

ACC NR: AP6021460 SOURCE CODE: UR/0413/66/000/011/0080/0080

INVENTOR: Drozdov, A. A.; Bereza, G. V.; Kochepasov, A. P.; Maksimov, N. V.; Sharikov, V. V.

ORG: None

TITLE: A device for centralized control of the amplitude of seismic signals in seismic stations. Class 42, No. 182353 [announced by the All-Union Scientific Research Institute of Geophysical Exploration Methods (Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki)]

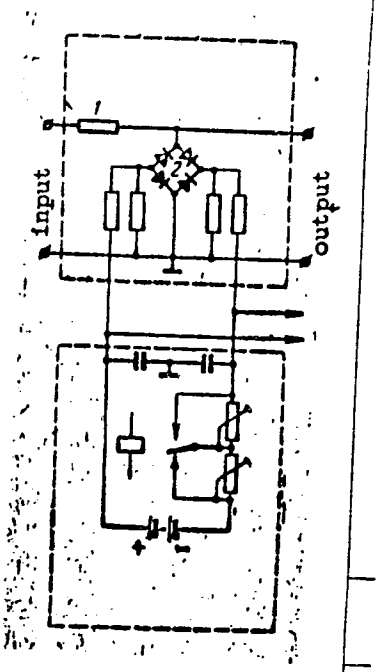
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 80

TOPIC TAGS: nonelectric signal equipment, seismology

ABSTRACT: This Author's Certificate introduces a device for centralized control of the amplitude of seismic signals in seismic stations. The installation contains a mechanical stepper switch. Reliability is improved by installing a voltage divider at the input of each channel of the seismic station. One arm of this divider is a resistor connected in series with the signal circuit, while the other is a bridge type diode switch connected in parallel with the signal circuit.

Card 1/2 UDC: 550.340.19

ACC NR: AP6021460



1--resistor
2--diode switch

SUB CODE: 08, 09/ SUBM DATE: 13May65

Card 2/2

MAKSIMOV, N. V.

USSR/Geophysics - Polar tides

Card 1/1 Pub. 22 - 13/50

Authors : Maksimov, N. V.

Title : A nutational circumpolar baric wave in the atmosphere of the earth

Periodical : DOK. AN SSSR 100/1, 49-52, Jan. 1, 1955

Abstract : Free nutational oscillations of an instantaneous axis of the rotation of the earth raise circumpolar tidal waves in the atmospheric pressure, the characteristic features of which are analyzed. The analysis was accomplished on the basis of experimental data obtained during two 14-year periods. The results of the analyses are presented in the tables and cotidal diagrams. Seven USSR references. (1939-1953). Diagrams; tables.

Institution : .....

Presented by : Academician V. V. Shuleykin, May 21, 1954

S/169/61/000/008/013/053
A006/A101

AUTHOR: Maksimov, N. V.

TITLE: Observations of ice formation on the surface of the Fedchenko glacier tongue

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 8, 1961, 68, abstract 8V514 ("Tr. Sredneaz. n.-i. gidrometeorol. in-ta", 1960, no. 3 (18), 52-54)

TEXT: The lower section of the snow layer on the glacier tongue transforms into ice during the melting period. An ice crust of 13 cm mean thickness is formed, which is 10% of the maximum water reserve in the snow and 5% of the middle layer of ice, melting every year (the maximum crust thickness was 27 cm in 8 years). During further melting and reduction of snow thickness the ice crust also becomes thinner and melts subsequently. The ice crusts on a glacier are much thicker than the similar crusts on ground surfaces during thaw weather or in the spring.

A. K.

[Abstracter's note: Complete translation]

Card 1/1

MAKSIMOV, O.

Management should not be like that. MTO no.10:56 O '59.
(MIRA 13:2)

1. Uchenyy sekretar' soveta Nauchno-tekhnicheskogo obshchestva tresta "Ryazanstroy".
(Ryazan--Building research)

MAKSIMOV, O.B.

Effect of a pyridine solution of hydrogen peroxide on brown, bituminous and oxidized coals. Trudy DVFAN SSSR. Ser. khim. no.6:60-82 '62. (MIRA 17:8)

MAKSIMOV, O.B.

Products of the oxidative decomposition of humic acids. Dokl. AN SSSR. 164 no.2:336-339 S '65. (MIRA 18:9)

1. Institut biologicheski aktivnykh veshchestv Dal'nevostochnogo filiala Sibirskogo otdeleniya AN SSSR. Submitted February 10, 1965.

DUNDUKOV,M.D., inzhener; SAMSONOV,V.N.; KARPENKO,F.A.; KRIGER,N.I.; KUZ'MIN,P.G., kandidat tekhnicheskikh nauk; SHELYAPIN,R.S., kandidat tekh. nauk; MAKSIMOV,O.N., inzhener; MALYSHEV,M.I., professor; RODSHTEYN,A.G., kandidat tekh.nauk; GOL'DSHTEYN,M.N professor; ABELEV,Yu.M.,professor.

Discussion of the problem of building on coarsely porous settling soils. Stroi. prom. 33 no.5:40-45 My '55. (MLRA 8:6)
(Soil mechanics)

KUL'CHITSKIY, Ya.O.[Kul'chyts'kyi, IA.O.]; MAKSIMOV, O.V. [Maksymov, O.V.]; KHLONIN, K.L.

Problem of the Lower Oligocene as revealed by the Eastern Carpathians. Geol.zhur. 22 no.1:59-65 '62. (MIRA 15:2)

1. Ukrainskiy nauchno-issledovatel'skiy gornorudnyy institut, L'vov.
(Carpathian Mountains--Palenotology,Stratigraphic)

SHCHEPETIL'NIKOV, V.A., prof., doktor tekhn. nauk; KAMENSKIY, V.A., dotsent, kand. tekhn. nauk; MAKSIMOV, P.A., inzh.

Causes of the deterioration of the elastic elements of the type RK-1A drive of generators mounted under passenger cars. Trudy MIIT no.195:20-33 '64. (MIRA 18:9)

CHEREPANOV, K.A.; MAKSIMOV, P.G.

Modeling the temperature field of the hearth bottom of an open-hearth furnace by means of an EI-12 electric integrator. Izv. vys. ucheb. zav.; chern. met. 7 no.2:173-177 '64. (MIRA 17:3)

1. Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat.

DENISENKO, Ivan Markovich; KAPUSTIN, Kirill Yeremeyevich; MAKSIMOV, Pavel Georgiyevich; SHREDHENNIKOV, S.S., redaktor; NEPOMNYASHCHIY, N.V., redaktor izdatel'stva; ATTOPOVICH, M.K., tekhnicheskiy redaktor

[Organization of repairs of open-hearth furnaces] Organizatsiia proizvodstva remontov martenovskikh pechei. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 446 p. (Open-hearth furnaces) (MLRA 9:7)

Maksimov, P. G.

Organization of Work During Repairs of O.H. Furnaces. L. M. Denisenko, K. F. Kapustin, and P. G. Maksimov. (*Stal'*, 1956, (4), 317–323). [In Russian]. Investigations carried out at the Kuznetsk metallurgical combine on the organization of O.H. repairs are described. Details are given of the improvements obtained by the application of the results of the investigations.—S. K.

MAKSIMOV, P. I.

[illegible] kandidat tekhnicheskikh nauk; SHABEL'NIK [illegible]; MAKSIMOV, P. I., [illegible] inzhener; DEKHTYAREV, [illegible], gornyy inzhener.

Investigating the geometry of stoping. Gor.zhur. no.[illegible] S [illegible].
(MIRA [illegible])

1. Gorno-geologicheskiy institut Zapadno-Sibirskogo filiala Akademii nauk SSSR (for Dubynin and Shabel'nikov). 2. Gornoye upravleniye [illegible]skogo metallurgicheskogo kombinata (for Maksimov and Dekhtyarev).
(Mining engineering)

DUBYNIN, N.G.; IVANOVA, L.T.; MAKSIMOV, P.I.

Breaking ore with deep vertical blastholes. Trudy Inst. gor. dela Sib. otd. AN SSSR no.3:188-199 '60. (MIRA 14:4)
(Gornaya Shoriya--Iron mines and mining)
(Blasting)

MAKSIMOV, P.I.

Characteristics on injuries of the lower extremities in the medicolegal practice of the Moldavian S.S.R. Zdravookhranenie 2 no.6:37-39 N-D '59. (MIRA 13:6)

1. Iz kafedry sudebnoy meditsiny (zav. - dotsent P.G. Areshev) Kishinevskogo meditsinskogo instituta.
(MOLDAVIA--EXTREMITIES, LOWER--WOUNDS AND INJURIES)

MAKSIMOV, [illegible]

Maksimov, [illegible] and Chistyakov, [illegible] "Autoclave sterilization of blood stabilizer solutions in the light of experiments", [illegible]relivanye krovi, [illegible], [illegible], 194[illegible], p. 5-17.

S.: U-[illegible], 11 March [illegible], (Letopis 'Zhurnal 'nykh Statey No. 7, 19[illegible])

MAKSIMOV, P.M.

Maksimov, P.M. "Errors in the determination of blood groups of donors", Perelivaniye krovi, Collection 3, (Ivanovo, 1948, p. [illegible]-26.

SO: U-3042, 11 March 53, (Letopis 'zhurnal 'nykh Statey No. 7 1949)

MAKSIMOV, P.M.

Maksimov, P.M. and Chistyakov, S.I. "Errors in determining blood-group compatibility of recipients, their forms, principles, and treatment", (Investigations carried out during the war), Perelivaniye krovi, Collection 3, (Ivanovo, 1948, p. 77-83.

SO: U-3042, 11 March 53, (Letopis 'zhurnal 'nykh Statey No. 7, 1949)

MAKSIMOV, P. M.

Maksimov, P. M. "On transmitting malaria by transfusions", (Investigations carried on during the war), Perelivaniya krovi, So. section 3, (Ivanovo), 1 48, p. 4 - 0.

SO: U - 3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 7, 194).

MAKSIMOV, I.M.

Maksimov, I.M. "An evaluation of various washing agents and their adaption for cleaning glass equipment", Perelivaniye krovi, Collection 3, (Leningrad, 1942, pp. 162-7 .

SO: U-[illegible], 11 March 53, (Letopis 'zhurnal 'nykh Statey No. 7, 1949)

[illegible], [illegible]

Chistyakov, S.I. and [illegible] "[illegible] container for [illegible] blood", [illegible] Perelivaniye krovi, Collection 3, [illegible], [illegible], p. [illegible].

[illegible] 11 March [illegible], [illegible]

MAKSIMOV, P.M., professor (Ivanovo).

Local anesthetization of the distal phalanges. Khirurgiia no.6:78-80 Je '53. (MLRA 6:8)
(Local anesthesia) (Fingers)

MAKSIMOV, P.M., professor; SAMOYLOVA, V.N., operatsionnaya sestra.

Removal of labels from flasks after the medicines are used up is one of the important measures for the prevention of accidents. Med.sestra no.7: 8-9 Jl '53. (MLRA 6:7)

1. Oblastnaya stantsiya perelivaniya krovi, g. Ivanovo.
(Labels) (Drugs)

MAKSIMOV, P. M. (IVANOVO)

USSR/Medicine - Blood Transfusion Jul 53

"Improved Technique for the Blood Compatibility Test in Transfusions," Prof. P. M. Maksimov (Ivanovo) Hosp Surg Clinic, Ivanovo Med Inst, Ivanovo Oblast Blood Transfusion Sta

Klin Med, Vol 31, No 7, pp 87-88

Describes a simplified method of matching and cross matching blood. The entire operation is performed on one shallow dish. Drops of the recipient's and donor's plasma are placed in a definite order, and

270T55

drops of a physiological salt solution are added, for differentiation of agglutination reactions. This so-called 8-drop method proposed by Sr Lab Assistant Z. E. Lazareva has been found to be simple, rapid, and precise in its results.

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MAKSIMOV P.M.

MAKSIMOV, P.M., professor; NAGOVITSINA, M.A.

Exchange transfusion in the treatment of hemolytic shock and of posttransfusion anuria. Khirurgiia no.3:51-53 Mr '55. (MLRA 8:7)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. prof. P.M.Maksimov) Ivanovskogo meditsinskogo instituta.

(BLOOD TRANSFUSION,
exchange, ther. of post-transfusion hemolytic shock & anuria)
(SHOCK,
post-transfusion hemolytic shock, ther., exchange blood transfusion)
(BLOOD TRANSFUSION, complications,
shock & anuria, ther., exchange transfusion)
(ANURIA, etiology and pathogenesis,
blood transfusion, ther., exchange transfusion)

MAKSIMOV, P. M.

Perelivaniye Krovi v Bor'be za Zhizn' i Zdorov'ye (Blood Transfusion in Preserving Life and Health), by P. M. Maksimov, Moscow, State Medical Publishing House, 1956, 95 pp, with illustrations (from standard USSR library card of the State Library of the USSR imeni V. I. Lenin, No 616G).

The book makes a study of the scientific bases of blood transfusion and the practical application of this method. Modern advances accomplished in the field of blood transfusion are recounted.

Sum 1239

SALISHCHEV, V.E., professor; MAKSIMOV, P.M., professor

Anniversary of V.F.Lebedev, senior surgeon of Ivanovo Province. Khirurgiia 32 no.3:88-89 Mr '56. (MLRA 9:7)
(LEBEDEV, VLADIMIR FEDOROVICH, 1896-)

MAKSIMOV, P.M., professor; NEVSKIY, A.A., assistent; NAGOVITSINA, M.A., assistent; MARTYNOV, P.V., assistent; URLASHEVA, A.V., assistent

Substitution of blood in clinical practice. Vest.khir. no.5: 30-33 '61. (MIRA 15:1)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. P.M. Maksimov) i gospital'noy terapevticheskoy kliniki (zav. - prof. Ye.S. Myasoyedov) Ivanovskogo meditsinskogo instituta.
(BLOOD PLASMA SUBSTITUTES)

BCS MAKSIMOV, P.N. Refractories

1648. Increasing the life of ladle bricks by changing their shape. P. N. MAKSIMOV (*Ogneupory*, No. 9, 415, 1950; abstracted in *Stal'ivo*, 20, 353, 1950). Until 1949 the Sherov steelworks used side-arch bricks 250×123×67/75 mm. for the ladle walls and straight bricks 250×123×87 mm. for the bottom. The 87-mm. thick lining withstood c. 7-8 melts in 50-t., and 8-8 in 80-t. ladles. Wear was most severe along the sloping joints and the shape and dimensions of the bricks were therefore altered. The lining is now built stepwise, so that in the lower part of the ladle the thickness is 148 mm. and in the upper part only 90 mm. To increase durability the upper ring was lined with a special brick. The life was increased to 10-6 melts in 80-t. ladles and to 12–15 in 50-t. ladles. The wear on the brick and joints is uniform.

MAKSIMOV, P.N.

Some characteristics of gas and oil pools. Geol. nefti 1 no.3. 48-52 Mr '57. (MLRA 10:8)
(Timan Ridge--Petroleum geology)
(Pechora Valley--Petroleum geology)

MAKSIMOV, P.N.; MODELEVSKIY, M.Sh.; LIKHOLATNIKOV, V.M.

Assuring producible oil reserves. Geol. nefti i gaza 5 no.4:22-26 Ap '61. (MIRA 14:4)

1. Ukhtinskiy neftyanoy kombinat.
(Petroleum geology)

MAKSIMOV, P. P.

Pchely [Bees]. Cheboksary, Chuvashgosizdat, 1953. 128 p.

SO: Monthly List of Russian Accessions, Vol. 6, No. 5, August 1953.

MAKSIMOV, P.P.

School excursions to an apiary. Est.v shkole no.2:69-71 Mr-Ap '54.
(MLRA 7:3)

1. Ucitel' biologii Bol'she-Bikshikhinskoy semiletney shkoly Kanashskogo rayona Chuvashskoy ASSR.
(School excursions) (Bee culture)

MAKSIMOV, P.P., uchitel'

Studying agricultural plant pests and measures for controlling them. Biol. v shkole no.2:31-34 Mr-Ap '58. (MIRA 11:4)

1. Bol'she-Bikshikhskaya sredney shkoly Kanashskogo rayona Chuvashskoy ASSR.
(Plants, Protection of--Study and teaching)
(Slugs (Zoology) (Plant lice)

MAKSIMOV, P.P., uchitel'

"Work of students in bee culture" by E.K. Reizin. Reviewed by P.P. Maksimov. Biol. v shkole no.2:91-93 Mr-Ap '59.
(MIRA 12:4)

1. Bol'she-Bikshikhskaya srednyaya shkola Kanashskogo rayona Chuvashskoy ASSR.
(Bee culture--Study and teaching)
(Reizin, E.K.)

MAKSIMOV, P.P., uchitel' g.Kanash, Chuvashkoy ASSR)

Dwarf fruit culture in school. Biol. v shkole no.3:77-79 My-Je '60. (MIRA 13:7)

(Dwarf fruit trees) (School gardens)