

#411

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PATROJENOV, G.M., SCHIBOV, N.F.

Method of studying the effect of medicinal plants on the
activity of the parasympathetic nervous system. Farm. Zh. 1965,
10:11-12. (S-0 165) (MIR 1810.)

1. Vozrastnaya izmenchivost' funktsionirovaniya serdtsa.
Farm. Zh. 1965, 10:11-12. (S-0 165) (MIR 1810.)

PATRUSHEV, G.A.

Effect of chloral hydrate on the cardiovascular system in rabbits
in experimental cholesterol atherosclerosis. Farm. i toks. 22
no. 5:426-434 S-O '59. (MIRA 13:3)

1. Kafedra farmakologii (zaveduyushchiy - prof. A.M. Preobrazhenskiy
[deceased]) I Moskovskogo ordena Lenina meditsinskogo instituta imeni
I.M. Sechenova.

(CHLORAL HYDRATE pharmacol.)
(ARTERIOSCLEROSIS pharmacol.)

PETRUNIN, A.M.; LOKTIONOVA, N.A.; AL'TMAN, M.B., rukovoditel' raboty;
Prinimali uchastiye: LOZHICHEVSKIY, A.S.; SHKROB, V.A.; POSTNIKOV,
A.S.; ARBUZOV, B.A.; PANTYUSHKOVA, N.S.; POBOCHINA, T.V.;
PATRUSHEV, L.M.

Mastering the production of large Al8 alloy castings. Alum.
splavy no.1:150-159 '63. (MIRA 16:11)

PATRUSHEV, R.

USSR

Irrigation-engineering

On Irrigation in Talas River, Central Tyan'Shan'Plateau, etc., Kirgizskaya SSR

Source: Sovetskaya Kirgiziya, 16 Feb. 1947, Frunze

Abstracted in USAR "Treasure Island" Report No. 15944, on file in Library of Congress, Air Information Division.

KARPOV, A.M., prof.; PATRUSHEV, M.A., kand.tekhn.nauk

Unstable direction of air escape. Bezop.truda v prom. 6 no.8:31-33
Ag '62. (MIRA 16:4)

1. Institut gornogo dela im. M.M.Fedorova AN UkrSSR.
(Mine ventilation)

MEDVEDEV, I.I., dotsent; PATRUSHEV, M.A.

Ways of reducing air leakage at the Solikamsk Potash Mines. Izv.
vys. ucheb. zav.; gor. zhur. no.12:79-82 '60. (MIRA 14:1)

1. Permskiy gornyy institut. Rekomendovana kafedroy razrabotki
mestorozhdeniy poleznykh iskopayemykh Permskogo gornogo instituta.
(Solikamsk--Potash) (Mine ventilation)

NAZAROV, M.I.; PATRUSHEV, M.F., inz., retsenzent; LEGOSTAYEV, A.M., retsenzent;
TALMAZA, V.F., retsenzent; VALENTINI, L.A., kand.tekhn.nauk, retsenz-
zent; KABAKOV, M.M., red.; ANOKHINA, M.G., tekhn.red.

[Paved canals] Meshchenye kanaly. Frunze, Akad.nauk Kirgizskoi
SSR, 1958. 104 p. (MIRA 12:3)
(Irrigation canals and flumes)

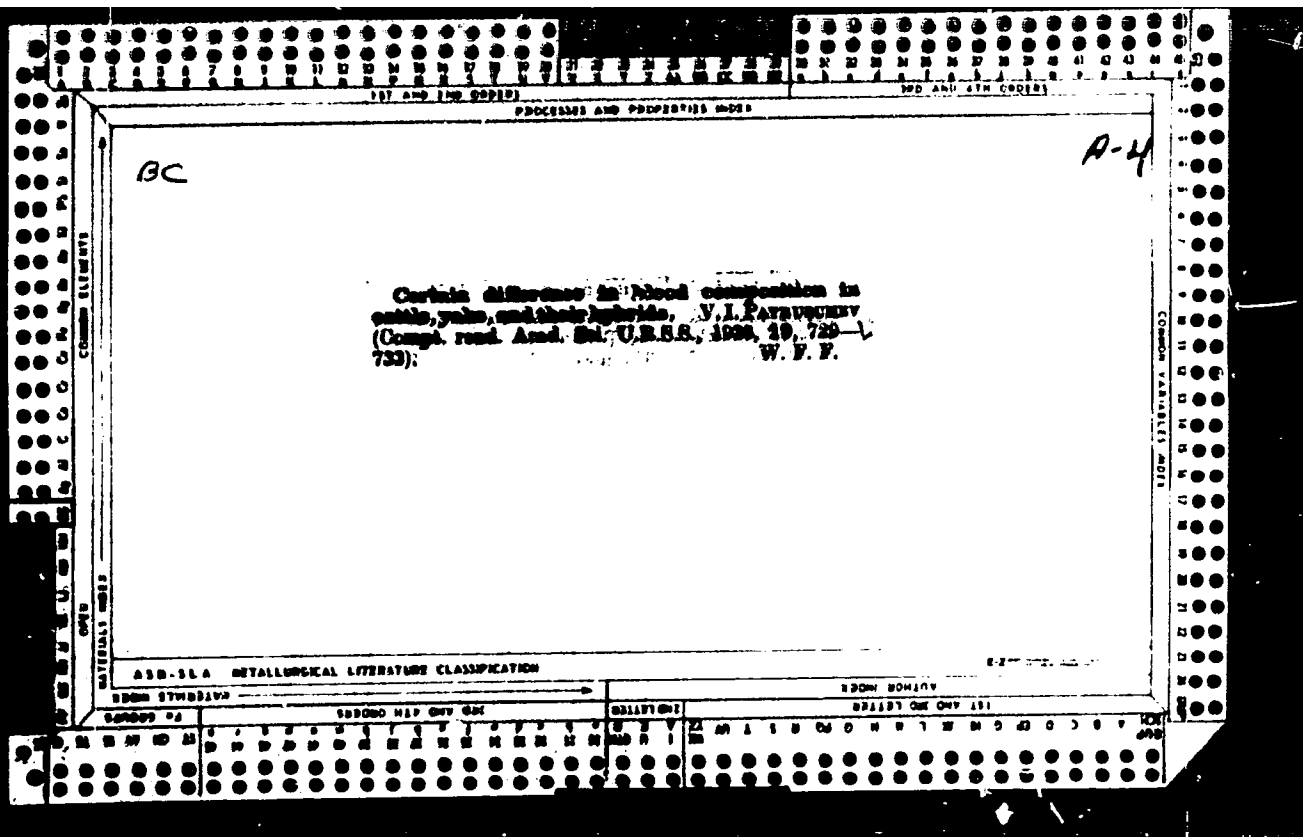
PATRUSHEV, N.

Российский экономический институт

Let's make a wider use of local building materials. *Sel'.stroi.* 11
[1.e.12] no.1:23 Ja '57. (MLRA 10:3)

1. Nachal'nik Sverdlovskogo oblastnogo upravleniya po stroitel'stvu
v kolkhozakh.

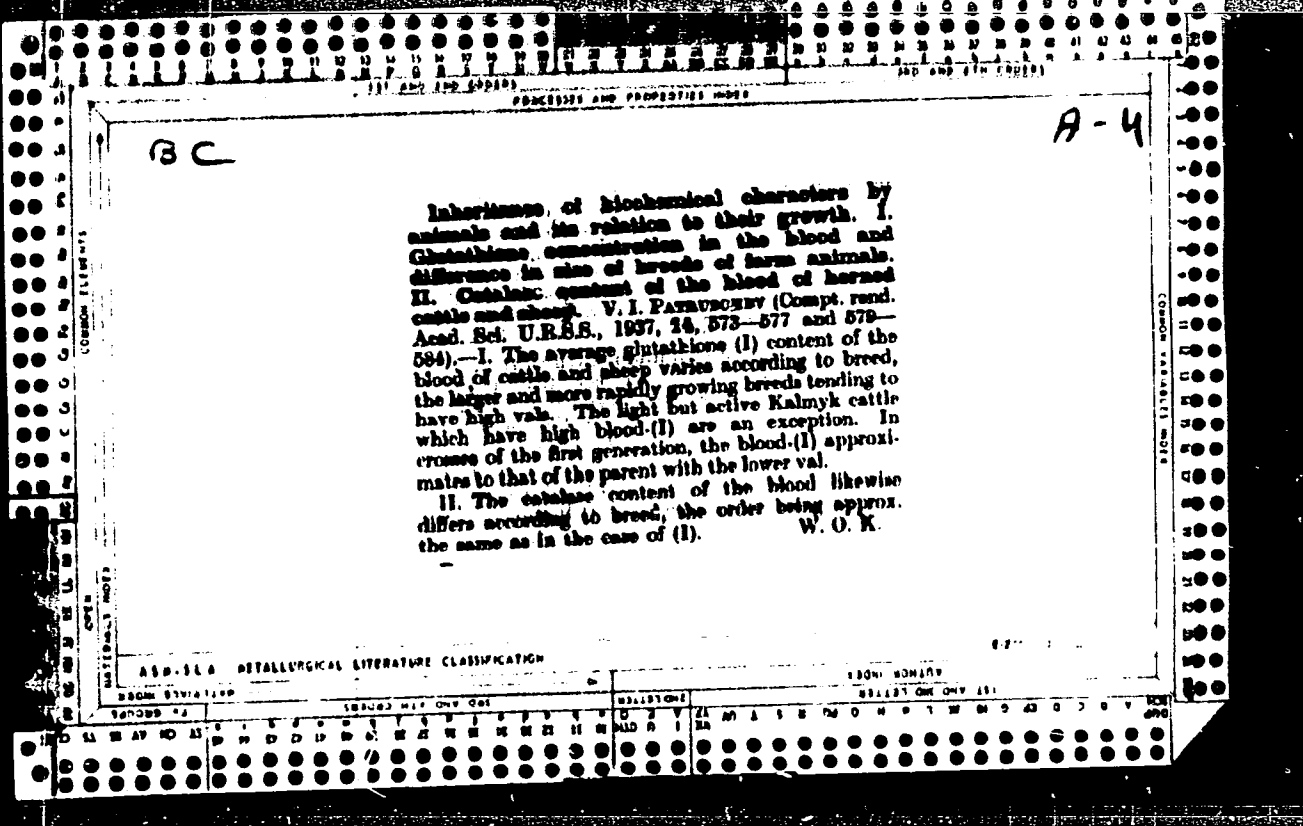
(Building materials)



BC

Inheritance of biochemical characters in animals in connection with growth. III. Some indices of the blood composition of the hybrids between bactrian camels and dromedaries in connection with heterosis. IV. Differences in composition of blood in horses, asses, and mules. V. I. PATRUCHENOV (Compt. rend. Acad. Sci. U.R.S.S., 1958, 20, 228-230, 231-232).—III. Sp. gr. and total and reduced glutathione content of the blood are highest in hybrids, that dromedaries, and lowest in bactrian camels. Substances of erythrocytes and cellular contents are highest in bactrian camels with hybrids next and dromedaries lowest.

IV. Young male horses, asses, and mules (up to 3-4 years) are smaller and have lower blood indices than females. Blood indices of asses and mules decrease at 1 1/2 years when they are almost fully grown, but continue to increase in horses, which grow more slowly. The blood indices for animals of different age and sex are tabulated. E. M. W.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

BC

A-4

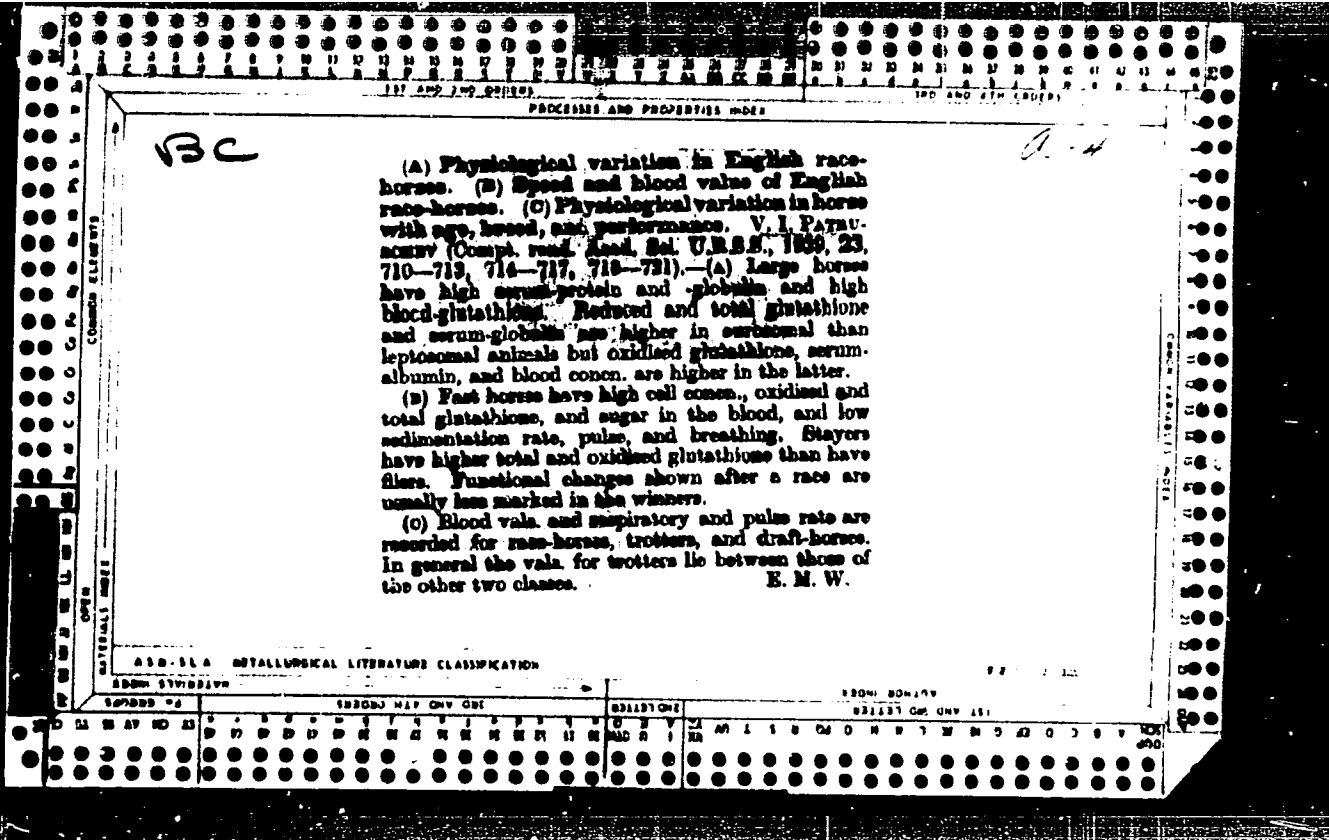
Production of productivity of farm animals. V. I. Patrushev
Acad. Sci. U.S.S.R., 1940, 87, 484-488. A physio-
logical approach based on an analysis of red blood formation, fer-
ments, etc. of different breeds of cattle, horses, sheep, rabbits, and
chickens. J. D. H.

ADD. 51.4 METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

SEARCHED	INDEXED	SERIALIZED	FILED

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



PATRUSHEV, I.G.

What proper utilization of land has given to the collective farm.
Zemledelie 4 no.5:104-108 My '56. (MLRA 9:8)

1. Agronom kolkhoza "Pervoye maya", Ust'-Abakanskogo rayona,
Krasnoyarskogo kraya.
(Ust'-Abakan District--Agriculture)

1. PATRUSHEV, I. M.
2. USSR (600)
- h. Feeding and Feeding Stuffs
7. Experience in mechanization of labor in feed preparation.
Dost. sel'khoz. No. 1, 1952.

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

Patrushev, I. N.
PATRUSHEV, I.N., insh.

Using electric heaters for drying lumber in petrolatum.
Stroi.prom. 35 no.11:34-36 N '57. (IRA 10:1?)
(Lumber--Drying) (Electric heating) (Petrolatum)

GORBACHEV, T.F.; PATRUSHEV, I.S.; KOSTYLEV, A.L., kand. tekhn.
nauk, otv. red.; OMBYSH-KUZNETSOV, S.O., red.

[Coal-mining machinery and equipment] Ugle dobyvaiushchie
agregaty i komplekсы. Novosibirsk, Izd-vo Sibirskogo otd-
niia AN SSSR, 1961. 102 p. (MIRA 17:5)

PATRUSHEV, I. S.; VOROB'YEV, V. I.; GORBACHEV, T. F.; KUFAREV, F. P.

"Effectiveness of Tests with Soviet Kuzbass Comgine," M khanizatsiya Trudoyemkikh
i Tyazhelykh Rabot, No 4, 1950.

Translation, W-13871, 25 Sep 50

1. The first part of the document is a list of names and titles of the members of the committee. The names are listed in alphabetical order. The titles are listed in the order in which they appear in the document. The names and titles are as follows:

PATRUSHEV, M.A., kand. tekhn. nauk

Stability of the ventilating flow according to its direction.
Bezop. truda v prom. 7 no.12:15-19 D '63.

(MIRA 18:7)

1. Institut gornogo dela AN UkrSSR im. M.M. Fedorova.

MEDVEDEV, Innokentiy Innokent'yevich; PATRUSHEV, Mikhail Alekseyevich;
AYRUNI, A.T., otv. red.; YEROKHIN, G.M., red. izd-va;
LOMILINA, L.N., tekhn. red.; MINSKER, L.I., tekhn. red.

[Ventilation of potassium and rock-salt mines] Provetrivanie
kaliinykh i kamennosolianykh rudnikov. Moskva, Gosgortekh-
izdat, 1963. 159 p. (Mine ventilation) (MIRA 16:6)

PATRUSHEV, M. A. Cand Tech Sci -- (diss) "Study of ~~the~~ loss^{es} of air in
parallel mining." Len, 1957. 22 pp (Min of ~~Higher~~ Higher Education USSR. Len
Orders of Lenin and Labor Red Banner Mining Inst im G. V. Plokhonov)
(KL, 44-57, 100)

PATRUSHEV, M. A.

Research on the leakage of air through ventilation connections.
Zap. LGI 38 no.1:54-69 1959 (MIRA 14:3)
(Mine ventilation)

PATRUSHEV, M.A.

Determining air leakage and calculating the depression in
parallel drifts. Zap.Len.gor.inst. 36 no.1:136-155 '58.
(MIRA 12:4)
(Mine ventilation)

PATRUSHEV, M.A.dotsent; MEDVEDEV, I.I., dotsent

Standardizing poisonous gas content in explosion products. Bezop.
truda v prom. 5 no.3:16-19 Mr '61. (MIRA 14:3)
(Explosives)

PATRUSHEV, N.I.

Modernization of the OK-66 bark peeling machine. Ser. prom. 11 no.9.
22-23 3 '62. (MIRA 17:2)

1. Permakiy domostroitelnyy kombinat.

PATRUSHEV, P.A., inzh.; SMIRNOV, L.A., inzh.; SOKOLOV, T.P.; SHUL'MAN, ...

Combining assembly and transportation of the blocks of a PK-32-¹ boiler. Energ. stroi. no.20:114-120 '61. (MIRA 15:1)

1. Proyeektnoye byuro Montazhnogo upravleniya "Uralenergmontazh" (for Patrushev, Smirnov). 2. Montazhnoye upravleniye "Uralenergmontazh" (for Sokolov). 3. Moskovskiy filial instituta "Orgenergostroy" (for Shul'man).

(Boilers)

USSR / Cultivated Plants. Fruit Trees. Small
Fruit Trees.

M-1

Abs Jour: Ref Zhur-Biol., 1956, No 10, 13120.

Author : Patrushev, S.

Inst : Not Given.

Title : Agricultural Engineering in the orchards of Tumen.

Orig Pub: Sad. Ag. 1956, No 1, 55-59.

Abstract: No abstract.

Page 1/1

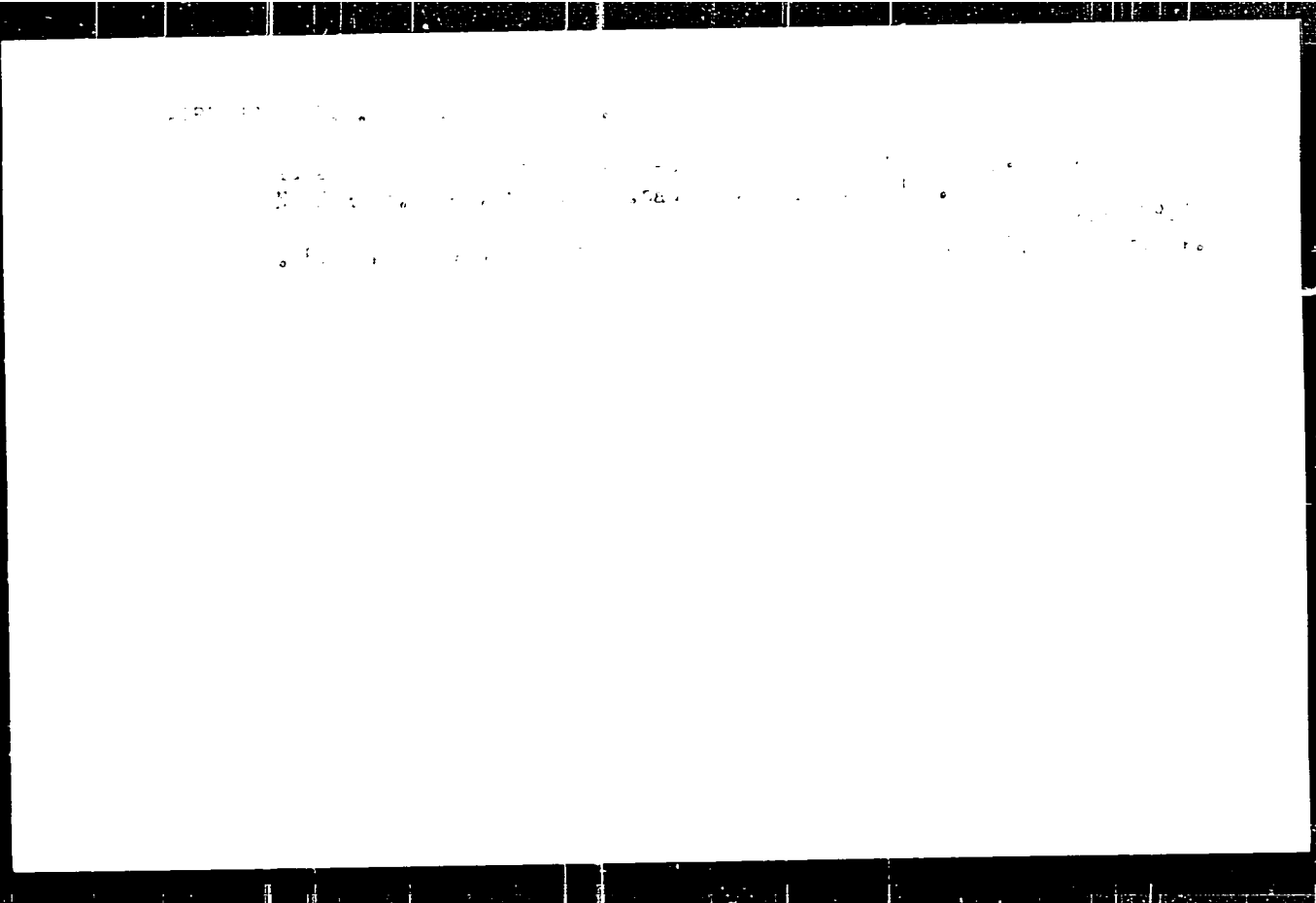
PATRUSHEV, V.

Work intensification as the most important factor in increasing
the relative and absolute impoverishment of the proletariat.
Sots. trud 8 no.1:111-117 Ja '63. (MIRA 16:2)
(Labor and laboring classes)

SOMINSKIY, V.S., doktor ekon. nauk, prof., red.; PATRUSHEV, V.D.,
otv. red.; BALGUSOVA, V.S., red.; PUTEVNIKIN, P.I., red.;
SNITSARENKO, A.A., red.; SVCHINNIKOVA, T.K., tekhn. red.

[Economic problems of mastering new enterprises] Ekonomi-
cheskie voprosy osvoeniia novykh predpriatii. Pod obshchei
red. V.S.Sominskogo. Novosibirsk, Izd-vo Sibirskogo otd-
niia, 1963. 231 p. (MIRA 16:11)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut eko-
nomiki i organizatsii promyshlennogo proizvodstva.
(Industrial management)



PATRUSHEV, Vasilii Dmitriyevich, kand. ekon. nauk; TRIFSIK, G.B.,
red.; GERASIMOVA, Ye.S., tekhn. red.

[Labor intensity under socialism] Intensivnost' truda pri
sotsializme. Moskva, Ekonomizdat, 1963. 237 p.

(MIRA 16:6)

(Labor and laboring classes)

PATRUSHEV, V.N.

Practical applications in the physics curriculum. Fiz. v shkole
17 no.5:78-85 S-0 '57. (MLBA 10:9)

1. 16-ya srednyaya shkola, g. Kirov.
(Physics--Study and teaching)

PATRUSHEV, V.I. [deceased]; ZHUKOV, V.G.

Physiology of attention. Vop. psikhol. 8 no.5:70-74 8-0 '62.

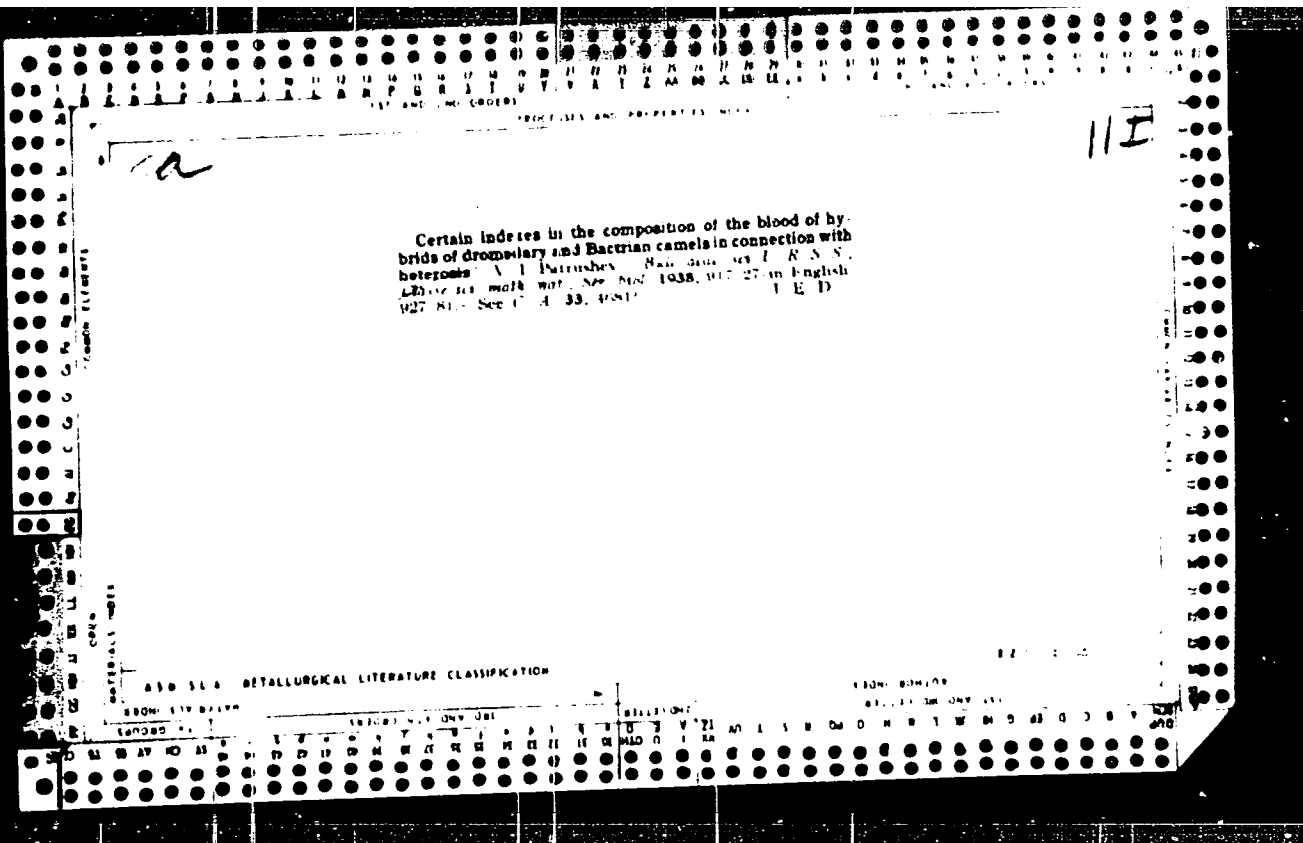
(MIRA 16:5)

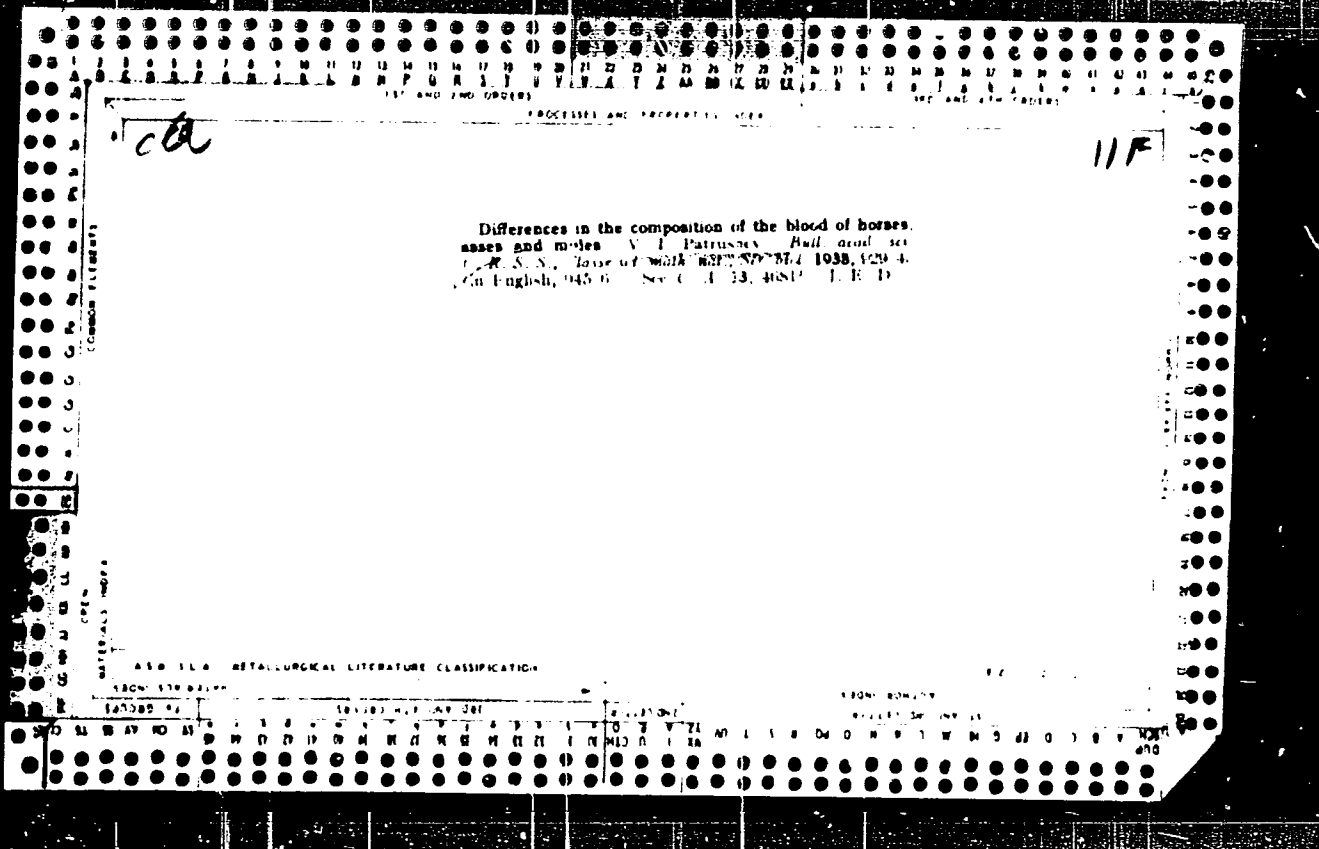
1. Ural'skiy universitet imeni A.M.Gor'kogo, Sverdlovsk.
(Attention) (Psychology, Physiological)

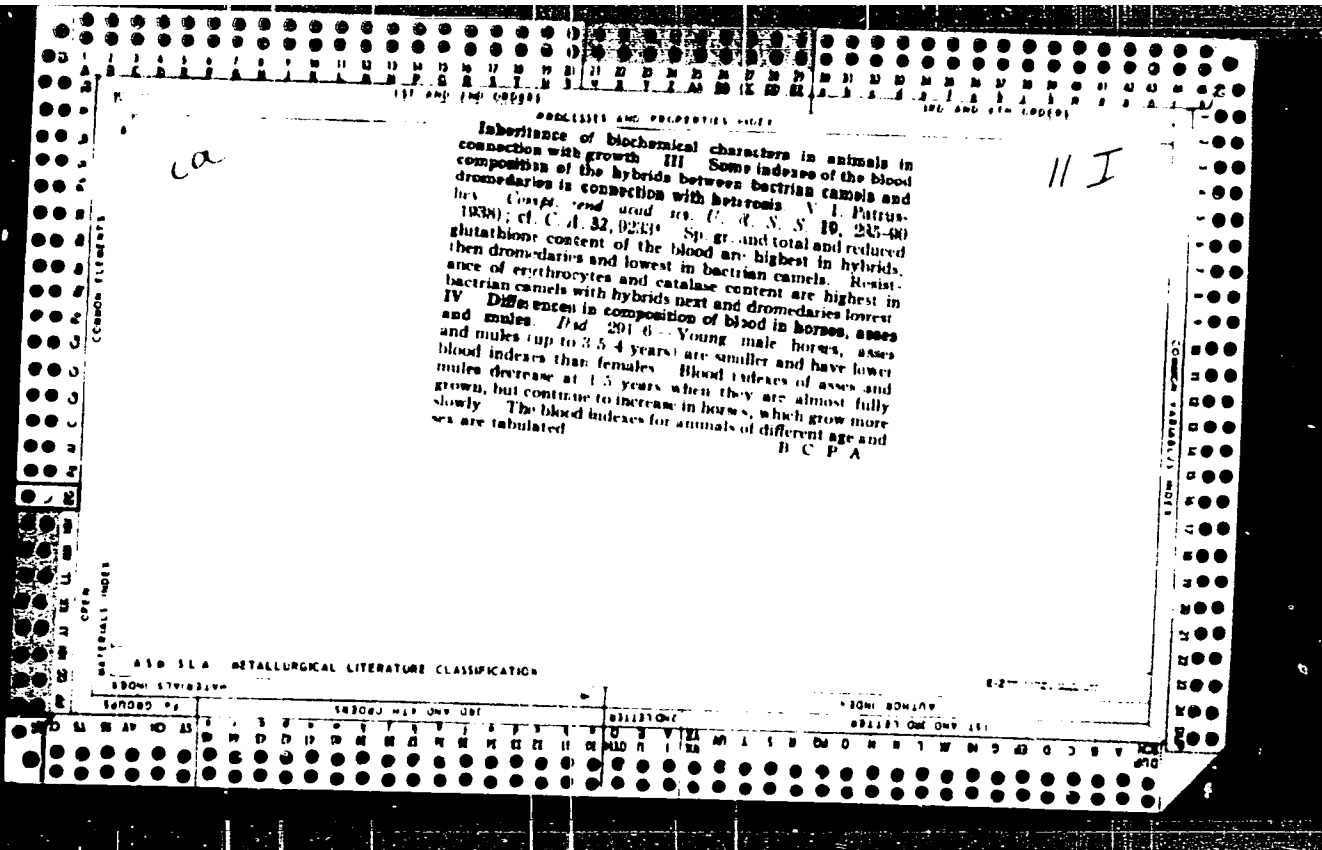
PATR...HEY, V.I.

Inheritance of biochemical characters by animals and its relation to their growth. I. Glutathione concentration in the blood and difference in size of breeds of farm animals. V. I. Paltushev. *Compt. rend. acad. sci. R. S. S.* 18, 573-7 (1937) (in English).--Breeds of horned cattle and of sheep which differ in their final sizes, live wts. and rates of attaining maturity show differences in the glutathione content of their blood. Within groups of the same strain, the animals that have a higher glutathione content in their blood are larger in size and wt. II. The catalase content in the blood of horned cattle sheep. *Ibid.* 570-84. Breeds of animals of energetic temperament have higher catalase content than phlegmatic, sluggish animals. Among breeds of similar temperament, the highest catalase content is found in those that have the highest growth rate. The existence of differences between different breeds in their catalase content supports the view of its hereditary nature. E. D. Walter

ALSO SEE METALLOPROTEIN LITERATURE CLASSIFICATION





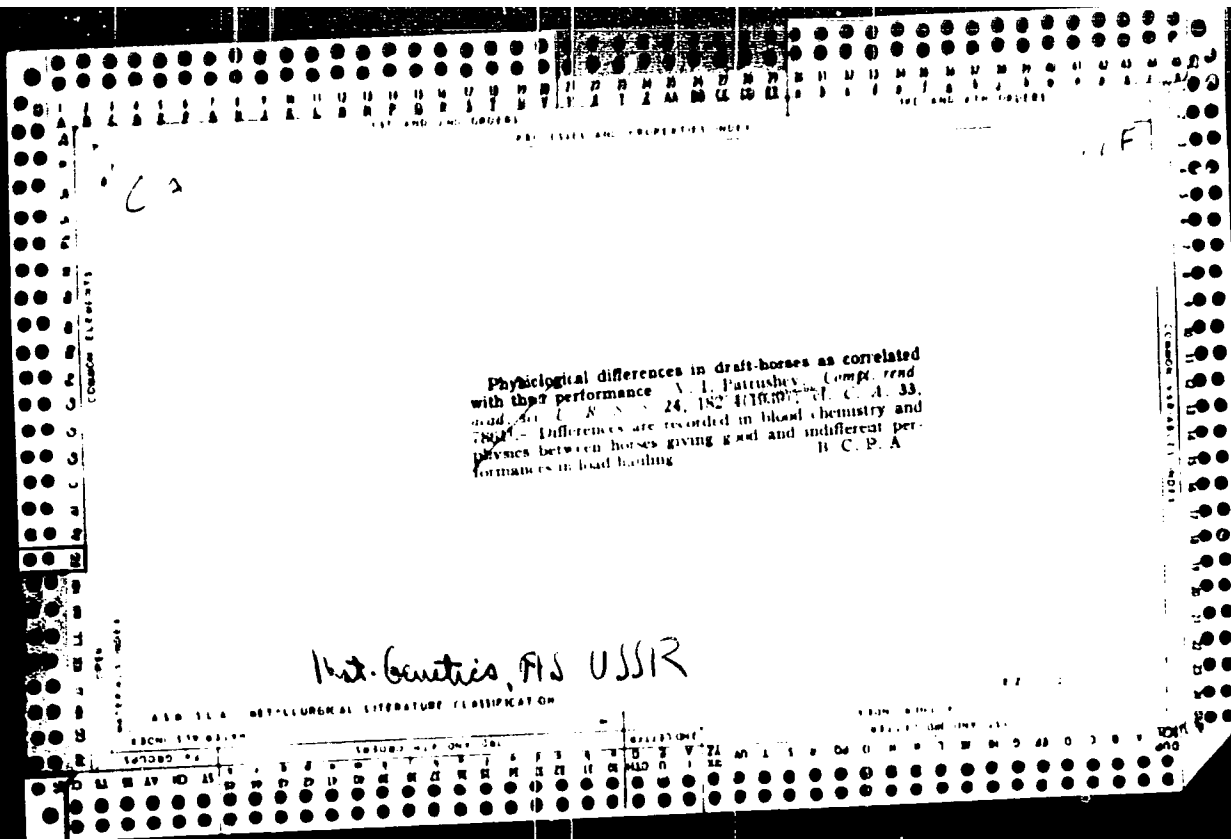


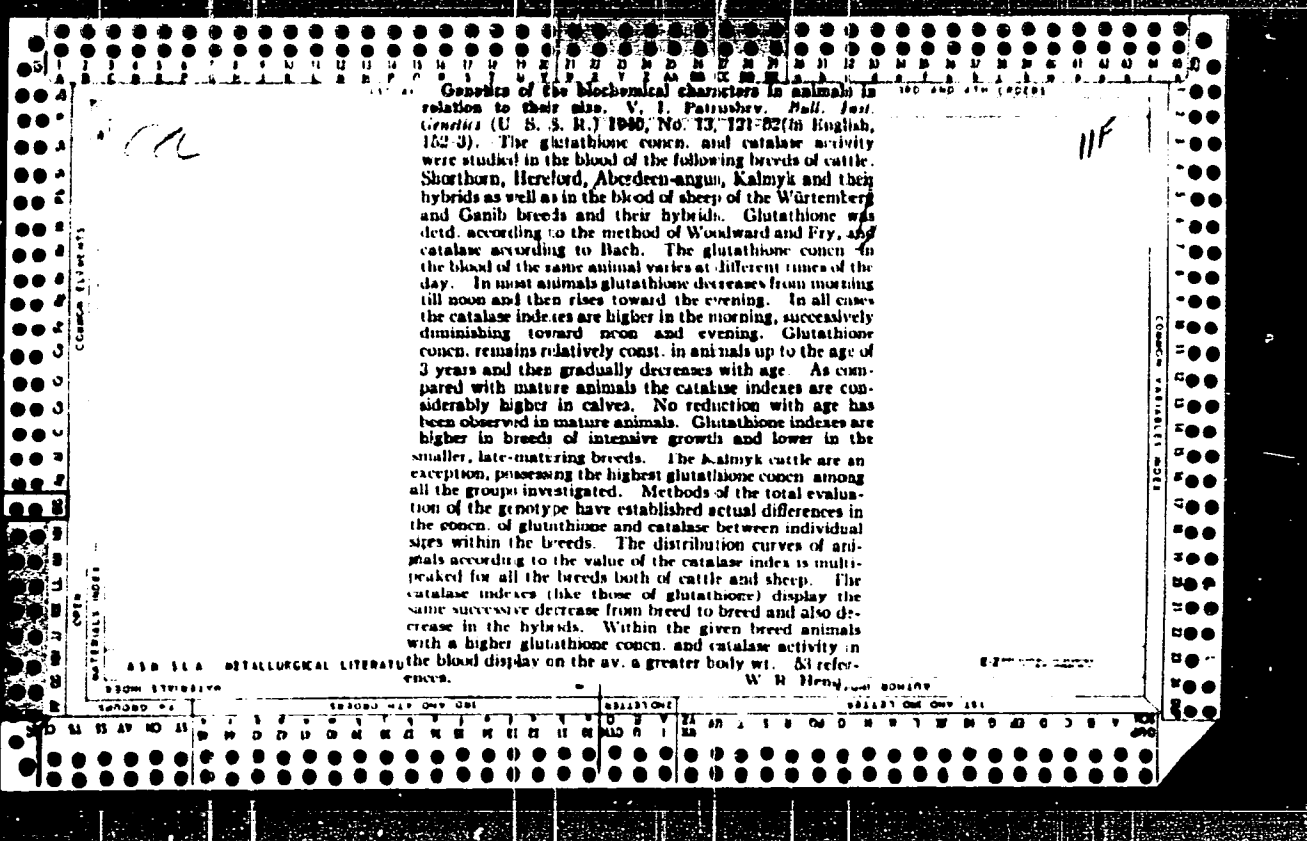
PATRUSHEV, V. I.

"Physiological Variation in Horse as Connected with
Age, Breed and Performance," Dok. AN, 23, No. 7, 1939;
Inst. Genetics. Mbr., Acad. Sci., c1939-.

"Physiological Variation within the English Race-Horses,"
ibid.;

"Speed and Blood Value of English Race-Horses," ibid.;





PATRUSHEV, V.I.

Effect of a salt-free diet on arterial pressure and mineral metabolism in hypertension. Vop. pit. 72 no.1:22-28 Ja-F'63
(MIRA 16:11)

1. Iz kafedry gosspital'noy terapii No.2 (zav. - prof.K.A. Mayanskaya) Kazanskogo meditsinskogo instituta.

*

PATRUSHEV, V. I.

"Physiological Approach to the Evaluation of the
Productivity of Farm Animals," "Morphophysiological Types
of Farm Animals," *ibid.*, 27, Nos. 5, 7, 1940. Inst.
Genetics, Acad. Sci., Moscow. c1940.

PATRUSHEV, V. I.

"Constitution of Animals" (p. 312) by Patrushev, V. I.

SC: Journal of General Biology (Zhurnal Obshchey Biologii) Vol. III, No. 5-6, 1942.

USSR / Farm Animals, General Problems

Q-1

Abs Jour: Ref Zhur-Biologiya, No 2, 1958. 7116

Author : V. I. Patrushev, A. V. Polukhina, N. I. Yalovaya,
R. N. Oleneva, I. V. Pavlova, T. I. Eatuyeva,
D. Popovich, Yu. Paryshkin

Inst : West Ural University

Title : The Physiological Basis of Increased Productivity
of Farm Animals

Orig Pub: Uch. zap. Ural'skogo un-ta, 1957, vyp. 15, 3-30

Abstract: Experiments made on calves which were raised on rations with a low, average, and high content of proteins, revealed a better digestion of proteins, nitrogen-free extracts and carotin, in animals which had received more proteins in their rations. It was also revealed that the stimulation of secretion of gastro intestinal juices

Card 1/3

1

ROSHCHEVSKIY, M.P.; PATRISHEV, V.I., prof., doktor biolog.nauk, otv. red.;
YEPIMAKHOVA, M.Ya., red.; BELYAYEV, S.A., tekhn.red.

[Electrical activity of the heart and electrocardiographic
methods for cattle] Elektricheskaya aktivnost' serdtsa i metody
s"emki elektrokardiogramm u krupnogo rogatogo skota. Sverdlovsk,
Ural'skii nauchno-issl. in-t sel'.khoz., 1958. 77 p. (MIRA 11:12)
(Cattle--Physiology) (Electrocardiography)

PATRUSEV, V.I.; PATUYEVA, T.I.; BOGOMOLOV, N.A.; GANYUSHKINA, S.M.;
NAUMOV, M.P.; PAVLOVA, I.V.; PARYSHKIN, Yu.A.; POLUKHIRA, A.V.;
SILANT'YEVA, K.G.; SUGANOVA, N.M.

Experiments in physiological evaluation of food rations. Uch.zap.
UrGU no.31:3-16 '59. (MIRA 14:5)
(Cattle--Feeding and feeds) (Proteins)

FATRUSHEV, V.I.; VAKAR, B.A., prof., otv. red.

[A concise outline of the development and use of biological knowledge; a manual for students of biology departments] Kratkii ocherk razvitiia i ispol'zovaniia biologicheskikh znani; uchebnoe posobie dlia studentov biologicheskogo fakul'teta. Sverdlovsk, Ural'skii gos. univ., 1961. 169 p. (MIRA 37:9)



PATRUSHEV, V.I.

Salt regimen at different stages of hypertension. Terap. arkh.
35 no.9:40-47 S'63 (MIRA 17:4)

1. Iz kafedry gosspital'noy terapii No.2 (zav. - prof. K.A.
Mayansakaya) Kazanskogo meditsinskogo instituta.

PATRUSHEV, V.I.

Role of sodium and chlorine in the hypotensive action of
low-chloride and chloride free diet in hypertension. Terap.
arch. 34 no. 12:8-14 D'62. (MIRA 16:6)

1. Iz kafedry gosital'noy terapii No.2 (zav. - prof. K.A.
Mayanskaya) Kazanskogo meditsinskogo instituta.
(SALT-FREE DIET) (HYPERTENSION)

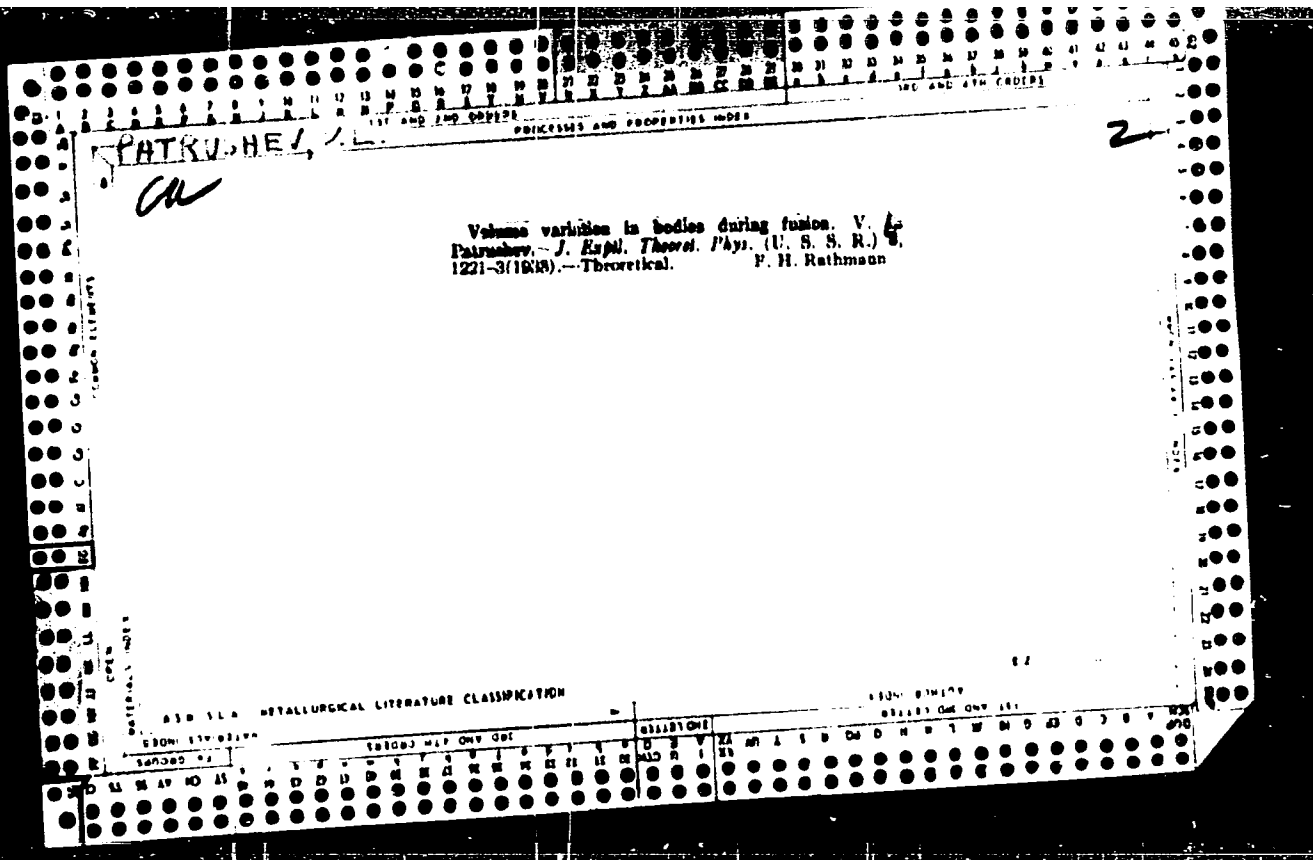
PATRUSHEV, V.I., aspirant

Effect of sodium chloride on electrolyte metabolism and
arterial pressure in hypertension. Kaz.med.zhur. no.1:
23-24, Ja-F'63. (MIA 16:8)

1. Kafedra gospiatal'noy terapii no.2 (zav. - prof. K.A.
Mayanskaya) Kazanskogo meditsinskogo instituta.
(SALT—PHYSIOLOGICAL EFFECT) (ELECTROLYTE METABOLISM)

ZAVOYSKIY, Ye.K.; KOVAN, I.A.; PATRUSHEV, B.I.; RUSANOV, V.D.; FRANK-KAMENETSKIY,
D.A.

Magnetoacoustic method of plasma ionization. Zhur.tekh.fiz. 31
no.5:513-517 My '61. (MIRA 14:7)
(Plasma (Ionized gases)) (Magnetohydrodynamics)



PATRUSHEV, V. L.

Mbr., Sci. Res. Physico-Math. Inst., Saratov State Univ., -1940-1945-.

Mbr., Sci. Res. Inst. Saratov State Univ., -1949-.

"The Endovibrator in the Resonance Method for Investigating the Dielectric Constant of Substances in the Decimeter Range,"

Iz. Ak. Nauk SSSR, Ser. Fiz., 4, No. 3, 1940;

"Computation of the Electromagnetic Field of Endovibrators Having Form of a Body of Rotation,"

"Calculation of a Form of a Cylindrical Endovibrator," Zhur. Tekh.

Fiz., 16, No. 1, 1946;

"Equivalent Constants of a Rectangular Cavity Resonator," Radiotekh., 1, No. 9, 1946;

"Calculation of a Pi-Shape Cavity Resonator," Zhur. Tekh. Fiz. 20, No. 7, 1950;

PATRUSHEV, V. I.

TA 3004

USSR/Radio

Dec 1946

Resonators, Cavity
Resonators, Electric

"Equivalent Constants of a Rectangular Cavity Resonator," V. L. Patrushev, 9 pp

"Radiotekhnika" Vol I, No 9

The equivalency of a cavity resonator to an oscillatory circuit is established and formulas for computing the various modes of oscillations are derived.

20765

PATRUSHEV, V. L.

for
P. U.
sent

Patrushev, V. L. The application of the method of curvilinear coordinates for the computation of Π -shaped endoscissors. *Izv. Akad. Nauk SSSR. Zhurnal Tekh. Fiz.* 20, 727-734 (1950). (Russian)

The lowest mode electromagnetic field is found for a cavity in the form of a closed wave guide in which a partition is placed to make the interior Π -shaped. A conformal mapping is first found which solves a related static field problem; then a variational principle is used to find the lowest mode. E. N. Gilbert (Murray Hill, N. J.).

Source: Mathematical Reviews,

Vol 12 No. 9

87

USSR/Electronics - Cavity Resonators : Jul 50
Vacuum Tubes, UHF

"Calculation of a P1-Shape Cavity Resonator,"
V. I. Patrusev, O. V. Romanova, Saratov, Lab
of Radiophys, NIMF /Sci Res Inst of Microwave
Phys²⁷, Saratov State U

"Zhur Tekh Fiz" Vol XX, No 7, pp 798-801

Calculates cavity resonator in form of cylinder
with thin rod inserted in it. Resonant wave
length is $2\pi/k \sqrt{\epsilon}$ /wavelength application/. Ap-
plies formula obtained for calculating length
of thin tuning rod to two cavity resonators

164730

USSR/Electronics - Cavity Resonators Jul 50
(Contd)

excited by 26-cm oscillator and compares values
obtained with experimental data. Submitted
14 Feb 49.

164730

PATRUSEV, V. I.

Category : USSR/Radiophysics - Radiation of radio waves. Antennas

I-5

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 1875

Author : Patrushev, V.L.

Title : Design of Toroidal Cavity Circuit using the Curvilinear-Coordinate Method

Orig Pub : Radiotekhn. i elektronika, 1956, 1, No 2, 162-170

Abstract : Report on the results of a theoretical design of a toroidal cavity circuit with rods of arbitrary length, using the curvilinear-coordinate method.

The Schwartz-Christoffel theorem is used to map the region bounded by the resonator cavity in the (z,r) plane onto the upper half of the plane of the complex variable w , after which it is mapped with the equation $\bar{w} = \exp(j\pi\xi)$ onto the ξ plane. Equations are given to relate the parameters in the w plane with the geometric dimensions of the cavity circuit.

The fundamental oscillation frequency, the components of the electromagnetic field, and the Q factor are determined by solving the Maxwell equation in the ξ plane by the Ritz approximate method.

The results of the theory are illustrated by numerical examples.

Card : 1/1

PATRUSHEV, V L

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - 1258
AUTHOR PATRUSEV, V.L.
TITLE The Application of the Method of Curvilinear Coordinates on the
Computation of a \square -Shaped Resonator.
PERIODICAL Zurn. techn. fis, 26, fasc. 4, 821-831 (1956)
Publ. 4 / 1956 reviewed 9 / 1956


The present work proves the applicability of the method of curvilinear coordinates to the computation of a \square -shaped spatial circuit with a cylindrical rod of any thickness. The significance of the \square -shaped resonator is defined, but this is done in a complicated, not quite clear manner. In any case a \square -shaped resonator is a "high frequency oscillatory system which, with respect to the distribution of the electromagnetic field, is supposed to be equivalent to the quarter of a concentric wave line (?) with a certain capacity".

The choice of a curvilinear system of coordinates is carried out in such a manner that some of the coordinate surfaces are identical with the conductive walls of the \square -shaped spatial electric circuit. This \square -shaped electric circuit forms a cylindrical cavity with the radius r_0 and with a rod of the radius r_1 , which is coaxially arranged in the aforementioned cavity. The axial section of such a resonator is represented in a complex plane $z + ir$. The images between the various complex coordinate systems are discussed. In the curvilinear systems of coordinates used in this instance the expressions

Žurn. techn. fis, 26, fasc. 4, 821-831 (1956) CARD 2 / 2

PA - 1258

of the functions are in most cases considerably simplified. There follows the determination of the components of the electromagnetic field and of the eigenfrequency of the oscillations. In the given oscillatory system oscillations of the type TM are assumed to be excited. For the determination of the scalar function Q occurring in the expressions for the components of the electromagnetic field a differential equation is given which is solved by means of a double rowed ansatz. The form of the resonator being assumed, two integrals remain to be computed; they are explicitly given for the present case.

An example for the computation in practice of a -shaped resonator. The system of coordinates used for computation must be adapted to the assumed dimensions of the system. The computation of the quality of the resonator is discussed and the results found are mentioned.

INSTITUTION: Agricultural Institute, Saratov

PATRUSHEV, V.L.

Characteristic frequency computation for a Π -shaped coil partly filled with an absorbing dielectric. Dokl.AN SSSR 107 no.3:409-412
Mr '56. (MLRA 9:7)

1.Predstavleno akademikem B.A.Vvedenskim.
(Electric coils) (Frequency measurements) (Dielectrics)

PATRUSHEV, V.I.

Computation of TE-mode natural frequencies in toroidal and Π -form
resonators. Izv. vys. ucheb. zav.; radiofiz. 2 no.2:223-228 '59
(MIRA 13:3)

1. Saratovskiy gosudarstvennyy universitet.
(Wave guides) (Electromagnetic waves)

05485
SOV/141-2-2-10/22

AUTHOR: Patrushev, V.L.

TITLE: Calculation of the Natural Frequencies of the TE Modes of Toroidal and Ω -shaped Resonators

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, 1959, Vol 2, Nr 2, pp 223 - 228 (USSR)

ABSTRACT: The electrical field in the TE mode has only one component, $E_\phi = E$, which is found from

$$\frac{\partial^2 E}{\partial \xi^2} + \frac{\partial^2 E}{\partial \eta^2} + \frac{1}{r} \frac{\partial r}{\partial \xi} \frac{\partial E}{\partial \xi} + \frac{1}{r} \frac{\partial r}{\partial \eta} \frac{\partial E}{\partial \eta} + \left(k^2 - \frac{1}{r^2} \right) h_0^2 E = 0 \quad (1)$$

this being written in a curvilinear system of co-ordinates ξ and η . The curves $\xi = \text{const.}$ and $\eta = \text{const.}$ in the cross-section of the resonator are in the form shown in Figure 1. The Lamé coefficient h_0 and the radial cylindrical co-ordinate r are chosen because of the axially symmetric form of the resonator. The expressions

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SOV/141-2-2-10/22

Calculation of the Natural Frequencies of the TE Modes of Toroidal and Γ -shaped Resonators

for h_0 and r for a Γ -shaped resonator are given in the work of the author (Ref 1) and those for a toroidal resonator in Ref 2. The solution of Eq (1) is equivalent to finding the value of the functional expressed by Eq (2), where the integration is carried out over the whole region, D , limited by the contour, L . In analogy to the solution of the problem of a vibrating diaphragm, the field E can be represented by Eq (3), where the constant coefficients a_m are chosen so that the functional $I(E)$ has a steady-state value in the class of functions represented by Eq (3). The coefficients a_m and the eigen values k can be found by substituting Eq (3) into Eq (2). The stationary value of the functional is obtained when the condition described by Eq (4) is fulfilled. By introducing the notation of Eqs (5) and (6) (where the index s can have values 1, 2, ...,), Eq (4) can be written as Eqs (7). This infinite system of linear equations has non-trivial solutions when its determinant (given by Eqs (8)) is equal

Card2/4

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SOV/141-2-2-10/22

Calculation of the Natural Frequencies of the TE Modes of Toroidal and Π -shaped Resonators

to zero. From Eq (8), it is possible to determine the quantity k and evaluate the coefficients of Eqs (7). The components of the electromagnetic field can now be expressed by Eqs (9). The above equations can be employed to solve practical problems. For a Π -shaped resonator, for $m = 1$ (the first approximation) it is shown that the coefficients α_{11} and γ_{11} are given by Eqs (10) and (11). On the other hand, the first approximation for a toroidal resonator shows that α_{11} and γ_{11} are given by Eqs (12) and (13). Eqs (10) to (13) permit the evaluation of the natural frequency of the TE mode in Π -type and toroidal cavity resonators. The formulae are approximate in that they give an error of the order of 1-2%. More accurate results can be obtained if the second approximation is attempted. There are 1 figure and 5 references, of which 4 are Soviet and 1 English.

Card3/4

05485
SOV/141-2-2-10/22
Calculation of the Natural Frequencies of the TE Modes of Toroidal
and П-shaped Resonators

ASSOCIATION: Saratovskiy gosudarstvennyy universitet
(Saratov State University)

SUBMITTED: November 10, 1957

Card 4/4

PATRUSHEV V. N.

47-5-12/16

AUTHOR: Patrushev, V.N. (Kirov)

TITLE: Polytechnical Training During Physics Instruction (Politekhnicheskoye obucheniye pri prepodavanii fiziki)

PERIODICAL: Fizika v Shkole, September-October 1957, No 5, pp 78-85 (USSR)

ABSTRACT: The Kirov 16th high school possesses a well equipped plant with facilities for electro-engineering, motion pictures, carpentry and mechanics. Section 1 of the article describes the equipment and storage facilities. Section 2 deals with the role of polytechnical training in the physics course. It points out the necessity of making the students familiar with the application of physical laws to modern industry, and quotes a number of questions considered to be most important in this training. In the last section the author relates his experiences with student extra-curricula activity. There exist 10 technical groups at the school, such as for aircraft models, for photography, for making devices, etc. The group work contributes to better progress by the students in physics, but also lectures on technical subjects. Evenings devoted to questions in physics and technics are important. The author quotes some of the subjects on which lectures are delivered in the various classes. Great significance is also attached to motion pictures

Card 1/2

Polytechnical Training During Physics Instruction

47-5-12/16

on physics and technique.
The article contains 5 photos.

ASSOCIATION: The 16th High School at Kirov (16-ya srednyaya shkola, gorod Kirov)

AVAILABLE: Library of Congress

Card 2/2

PATRUSHEV, V. M.

Excavating Machinery

Increasing productivity of excavators in open mines. V. M. Patrushev., 1951, 1952

9. Monthly List of Russian Accessions, Library of Congress, April 1952, 1953, Uncl.

GRIGOR'YEV, I.I.; SHIKHOVA, N.M.; VLADIMIROVA, Z.Ya.; KRESIKOVA, I.A.;
PATIUSHEVA, A.V.

Prevention of rheumatic fever under operating conditions of
rheumatological clinics. Vrach. delo no.9:31-33 S '60.

(MIRA 13:9)

1. Sochinskiy nauchno-issledovatel'skiy institut kurortologii.
(RHEUMATIC FEVER)

L 13274-65 EWT(a)/EPF(c)/EWP(j) PC-4/Pr-A RM
 ACCESSION NO: AP5002987 5/0079/64/0314/009/2907/2910

AUTHOR: Pudovik, A. N.; Aladshaya, I. M.; Patrusheva, N. A.

TITLE: Reaction of chlorides of dialkylphosphorus acids with 2,5-dimethylhexyne-3-diol-2,5

SOURCE: Zhurnal obshchey khimii, v. 34, no. 9, 1964, 2907-2910

TOPIC TAGS: chloride, organic phosphorus compound, chemical reaction

Abstract: The reactions of chlorides of diethyl-, di-n-propyl-, and di-n-butylphosphorous acids with 2,5-dimethylhexyne-3-diol-2,5 (I) were studied. In the reaction of 1 mole of (I) with 2 moles of the dialkyl chlorophosphite in ether solution in the presence of an organic base, followed by distillation of the reaction products under vacuum, the phosphites formed underwent a rearrangement, and 2,5-dimethyl-4-(dialkylphosphone)hexadiene-2,3-diol-5 (A) (20-38% yield) and 2,5-dimethyl-3,4-di(dialkylphosphone)hexadiene-2,4 (7-30% yield) were obtained. These reactions are compared with the analogous reactions of dialkylchlorophosphites with 2-butyne-1,4, producing only conjugated dienes and no allene-type products. The mechanisms of the reactions studied are discussed and the infrared spectra of the reaction products, confirming their structures, are considered. Orig. art. has 6 formulas and 1 table.

Card 1/2

L 18274-65

ACCESSION NR: JP5002987

ASSOCIATION: Kazanskly gosudarstvennyy universitet (Kazan State University)

SUBMITTED: OL/m163

ENCL: 00

SUB CODE: CC, GC

NO REF SOV: 092

OTHER: 00

JPIS

Carc 2/2

PATRUSHEVA, K.N.; VAL'PITER, E.V.

Increasing the speed of mazut discharge from tank cars in
the wintertime. Neft. khoz. 40 no.4:55-59 Ap '62. (MIRA 15:5)
(Mazut) (Tank cars) (Viscosity)

1. *Allyl, 2,3-dibromo-1-propanol, 1,2-dibromo-3-propanol, 1,3-dibromo-2-propanol.*

Internation. J. Electrochem. Energy Conversion 1977, 1, 1-10.
1977, 1, 1-10. (1977, 1, 1-10) (1977, 1, 1-10)

2. *Internation. J. Electrochem. Energy Conversion* 1977, 1, 1-10.

ZUDIN, V.M.; PATRUSHEVA, N.N.; VALPITER, E.V.; VEREMEY, I.I.

Separate feed of fuel oil. Metallurg 7 no.7:23 J1 '62.
(MIRA 15:7)

1. Magnitogorskiy metallurgicheskiy kombinat.
(Open-heart~~h~~ furnaces—Fuel systems)

L 57750-65

ACCESSION ID: AP5010363

UR/0205/65/005/002/0314/0314

AUTHOR: Patrusheva, O. I.; Tarchivaliy, I. A.

TITLE: Effect of beta-radiation on heart contraction frequency of mollusk embryos

SOURCE: Radiobiologiya, v. 5, no. 2, 1965, 314

TOPIC TERMS: mollusk, embryo, heart, heart contraction frequency, beta-radiation, radiation dose, radioresistance, phosphorus-32

ABSTRACT: In a series of experiments mollusk embryos (Planorbis corneus, Physa hypporum, Lymnaea stagnalis, and Physa fontinalis) were beta-irradiated with phosphorus-32 to investigate possible compensatory activity of the heart and radioresistance of embryos to different radiation doses. Four to six week old mollusk embryos were placed in a $\text{Na}_2\text{P}^{32}\text{O}_4$ solution and heart contraction frequencies were determined 10-15 min later. Solutions with a specific radioactivity of 0.5 to 250 microcuries/ml were used to determine survival time of embryos after 1, 2, 4, 24 and 168 hrs. Results show that beta-radiation produces a definite effect on heart contraction frequencies. Immediately at the start of a beta radiation dose of 12 microcuries or more, the heart contraction

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L 57750-65

ACCESSION NO AF5010363

Frequency decreases then increases and is followed by a second period of depression leading to cessation of heart activity and death. The separate periods of heart activity change become longer with decreased beta-radiation doses. Data on survival time for different phosphorus-32 doses indicate that the radioresistance of mollusk embryos is high compared to mammal embryos and is approximately the same as that of chicken embryos. Orig. art. has: 1 table.

ASSOCIATION: Kazanskiy gosudarstvennyy universitet im. V. I. Ul'yanova-Lenina (Kazan State University)

SUBMITTED: 27/63

EXCL: 00

SUB CODE: 15

SR REF SOV: 00

OTHER: 001

Cord

dlp
2/2

USSR / Human and Animal Morphology (Normal and Patho- 3-4
logical). Nervous System.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79082.

Author : Magrupov, A. I., Semenova, Ye. N., Patrusheva,
T. M., Poznanskaya, Zh. L., Abduknalinkov, F.,
Surkova, L. F.

Inst : Not given.

Title : Pathomorphology of the Internal Organs During
Toxic Encephalitis.

Orig Pub: Sb. nauchn. tr. Samarkands k. med. in-ta, 1955,
10, 145-153.

Abstract: No abstract.

Card 1/1

PATRUSHEVA, T. M.

"Complications of Gunshot Fractures of the Long bones."
Cand Med Sci, Samarkand State Medical Inst imeni Academician I. P.
Favlov, Samarkand, 1953. (KL, No 10, Mar 55)

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

PATRUSHEVA, V. D.

Биографический очерк о жизни и деятельности академика ВАСИЛИ
ИВАНОВИЧА ПАТРУШЕВА (1904-1970) МЛБА 10070

Биографический очерк о жизни и деятельности академика ВАСИЛИ
ИВАНОВИЧА ПАТРУШЕВА. Новосибирск.

PATRUSHEVA, V. D.

Distribution of chlorine, bicarbonates, and sulfates in Lower
Cretaceous sediments of Daghestan. Geol. nefti i gaza 7 no.3:
52-56 Mr '63. (MIRA 16:4)

1. Institut geologii Dagestanskogo filiala AN SSSR.
(Daghestan---Chlorine) (Daghestan---Carbonates)
(Daghestan---Sulfates)

PATRUSHEVA, V.D.

Geochemical characteristics of the Lower Cretaceous sediments
of Daghestan. Neftegaz. geol. i geofiz. no.7:54 '63.

(MIRA 17:10)

1. Dagestanskiy filial AN SSSR.

PATRUSHEVA, V.D.

Invasion of blackflies in various biotopes. Trudy Biol. inst.
Sib. otd. AN SSSR no. 10:89-96 '63.

Effect of meteorological conditions on the invasive activity
of blackflies. Ibid.:152-170 (MIRA 17:5)

PATRUSHEVA, V.D.

Ecology of preimaginal stages of the development of black flies in Western Siberia. Izv. SO AN SSSR no.4.Ser. biol.-med. nauk no.1:62-66'63. (MIRA 16:8)

1. Biologicheskii institut Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(SIBERIA, WESTERN--BLACK FLIES)
(INSECTS--DEVELOPMENT)

PATRUSHEVA, V.D.

Materials on black flies (Diptera, Simuliidae) in the upper Ob' Valley.
Trudy Biol. inst. Sib. otd. AN SSSR no.8:165-170 '62. (MIRA 15:12)
(Ob' Valley—Black flies)

PATRUSHEVA, V.D.

Geochemical conditions governing the formation of Middle Jurassic
sediments in Daghestan. Trudy Geol.inst.Dag.fil. AN SSSR 2:98-104
'60. (MIRA 15:12)

(Daghestan—Geochemistry)

PATRUSHEVA, V.D.

Connection between the character of asphaltenes and the chemical
composition of oils in Tertiary and Mesozoic sediments of Daghestan.
Trudy Geol.inst.Dag.fil. AN SSSR 2:111-117 '60. (MIRA 15:12)
(Daghestan--Asphaltenes) (Daghestan--Petroleum--Analysis)

MAGATAYEV, K.S.; PATRUSHEVA, V.D.; KOMAROV, V.F.

Study of spheroidities as weighting material of clay muds.
Trudy Geol.inst.Dag.fil. AN SSSR 2:204-212 '60. (MIRA 15:12)
(Samar Valley--Spherosiderite)
(Oil well drilling fluids)

PATRUSHEVA, V.D.

"Group chemical composition of gasolines of the Tertiary and
Mesozoic petroleum of Daghestan." Trudy Geol.inst.Dag.fil. AN
SSSR 1:213-220 '57. (MIRA 14:9)
(Daghestan--Gasoline--Analysis)

S/129/60/001/001/001/017
A051/A130

AUTHORS: Patrusheva, Ye. N.; Brezhneva, N. Ye.; Korpusov, G. V.

TITLE: The extraction of rare earth products of division using phosphorous-organic compounds (diamylphosphoric acid)

PERIODICAL: Radiokhimiya, v. 2, no. 5, 1960, 541 - 548

TEXT: The authors have investigated a group of alkylphosphoric acids as extracting agents for the formation of micro-quantities of lithium and rare earth elements. Data are submitted on the distribution of certain rare earth elements amongst solutions of diamylphosphoric acid ($C_{10}H_{21}O_4$), POOH (abbreviated HA) and of nitric acid. A study was made of the relationship of the distribution coefficients of these rare earth elements in the extraction using diamylphosphoric acid, to the concentration of: a) nitric acid, b) hydrogen ions, c) extracting agent, d) nitrate ions, and also a determination was made of the relationship of the distribution coefficients of rare earths to the values of their atomic numbers. A probable mechanism for extraction of rare earth elements has been recommended using diamylphosphoric acid and an evaluation was given of the equilibrium

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S/186/60/002/005/005/017
A051/A130

The extraction of rare earth ...

constant of the reaction of the extracting complex formation. The main experimental investigations were carried out with uni-basic diamylphosphoric acid, actually not containing dibasic acid (H_2A). The HA also did not contain isoforms. The experiments showed that when extracting with diisobutylphosphoric acid, the distribution coefficients obtained were somewhat less. Benzene and hydrated kerosene were used as the diluents which were first brought to equilibrium with the initial solutions. The extraction was conducted in graduated funnels of the usual type, at a temperature maintained at $\pm 3^\circ C$. The determination of the initial and equilibrium acidity of the water phase was carried out by direct titration with alkali. The element distribution was determined using radioactive indicators Ce^{144} , Pr^{144} , Pm^{147} , Y^{90} , Tu^{169} , $Eu^{152-154}$. Since Ce^{144} in its radioactive decay forms its β -product Pr^{144} , having a half-life of 17.5 min., the measurements of the specific activity were carried out after a radioactive equilibrium was reached (after 1.5 - 2 hours). The experimental procedure determined: 1) the relationship of the distribution coefficients of cerium and europium to the concentration of nitric acid, 2) to the concentration of the hydrogen ions, 3) of the nitrate ions, 4) of the diamylphosphoric

Card 2/12

The extraction of rare earth

S/186/60/002/005/005/017
A051/A130

acid, 5) the relationship of certain rare earth element distribution coefficients to their atomic numbers. Tables 1, 2 and Figures 1 - 5 show the experimental results, respectively. In discussing the obtained data the authors point out that these showed that within the region of low acidity, the distribution coefficients of the rare earth elements, when extracted with diamylphosphoric acid, are directly proportional to the third degree of concentration of the diluent in the organic phase and reversely proportional to the third degree of concentration of the hydrogen ions in the water phase and do not depend on the content of the nitrate ions in the system. Based on these data the authors conclude that within the range of the given acidity, organic salts are extracted of rare earth metals. It is said that a usual reaction of salt formation takes place, with subsequent dissolution of these in the organic phase. The absence of, within limits, anions of the corresponding mineral acids in the organic phase, when their concentration in the water phase did not exceed 2M, is given as proof of this extraction mechanism. The authors have also shown that although in the organic phase the diamylphosphoric acids are completely dimerized, (Ref. 6 - 8: C. F. Coleman, J. Phys. Chem., 62, 2, 129 (1958));

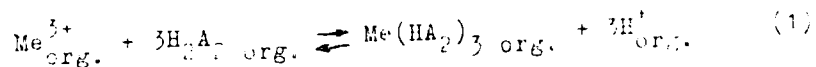
Card 3/12

✓

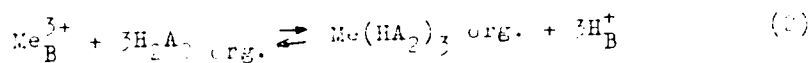
S/186/60/002/005/009/017
A051/A130

The extraction of rare earth

D.F. Pappard, J. W. Mason, J. L. Maier, W. J. Driscoll, J. Inorg. Nuclear Chem. 4, 5-6, 334, 1957; D.F. Peppard, G. W. Mason, S. W. Moline, J. Inorg. Nuclear Chem. 5, 2, 141, 1957;), yet, regardless of the degree of aggregation, the polymer molecule (or in this case the dimer molecule) of the di-amyolphosphoric acid, dissociates as a uni-basic acid, forming only one hydrogen ion. Thus, the authors present the equilibrium equation in the organic phase in the following form:



An expression relating to two equilibrial phases is given by introducing the corresponding equations of equilibrium, representing the distribution of Me^{3+} and H^+ between the organic and water phases:



The equilibrium constant of this reaction (1) is given as being:

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A051/A130

The extraction of rare earth

$$q = \frac{[Me(HA_2)_3]_{org.} [H^+]_B^3}{[Me^{3+}]_B [H_2A_2]_{org.}^3} \quad (3)$$

At low concentration of HNO₃ (< 2M) Me³⁺ is actually the only form in the water phase, i.e., the relative concentrations of other forms in the water phase are low. Thus, in this case the ratio

$$\frac{[Me(HA_2)_3]_{org.}}{[Me^{3+}]_B}$$

is replaced by K_p the distribution coefficient, and the equilibrium constant of equation (2) will acquire the following form after substituting and taking the log.:

$$\lg q = \lg K_p + 3 \lg [H^+]_B - 3 \lg [H_2A_2]_{org.} \quad (4)$$

Card 5/12