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S/020/60/135/003/016/039
C111/C222

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AUTHOR: Onishchik, A L

TITLE. Compact Lie Groups Being Transitive on Certain Manifolds

PERIODICAL Doklady Akademii nauk SSSR, 1960, Vol 135, No 3, pp 531-534

TEXT A general topological method for determining all connected compact Lie groups being transitive on a given manifold is proposed and carried out for some classes of homogeneous manifolds.

Let $H(X)$ be the algebra of the cohomologies of the space X with real coefficients; let f^* be the homomorphism of the algebras of the cohomologies, which is induced by the continuous mapping f. Let $P(X,t)$ be the Poincaré polynomial of the graduated or topological space X. Let $\mathfrak{G}$ be a connected compact Lie group; $\mathfrak{H}$ be its closed subgroup; $\mathfrak{G}_0$ be the connected component of the unity in $\mathfrak{G}$; $i: \mathfrak{H}_0 \to \mathfrak{G}$ imbedding. Let P and Q be the spaces of the primitive elements of the algebras $H(\mathfrak{G})$ and $H(\mathfrak{H}_0)$. Then $i^*(P) \subset Q$ and there exist graduated spaces P_1, $P_2 \subset P$ and Q_1, $Q_2 \subset Q$ so that $P = P_1 \oplus P_2$, $Q = Q_1 \oplus Q_2$, $i^*P_1 = 0$, i^* maps isomorphically P_2 onto Q_2. The fundamental topological fact used in the paper, consists in the assertion

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Compact Lie Groups Being Transitive on Certain Manifolds

(theorem 1) that the graduated spaces P_1 and Q_1 are topological invariants of the manifold $X = \mathfrak{G}/\mathfrak{J}$, i e they do not depend on the choice of the compact group $\mathfrak{G}$ being transitive on this manifold The proof of this fact is based on the results of (Ref 3,4).
The sum of the ranks of all groups $\pi_{2k+1}(X)$ $(k=1,2,\ldots)$ is denoted as the rank $r(X)$ of the topological space X if the sum is finite
Theorem 2. Let the connected compact Lie group $\mathfrak{G}$ be transitive on the manifold X of rank r Then there exists a normal divisor $\mathfrak{G}' \subset \mathfrak{G}$ being locally isomorphic to the direct product of at most r simple groups and being transitive on X If r = 1, then $\mathfrak{G}'$ is a simple normal divisor If $\mathfrak{G}''$ is a normal divisor of $\mathfrak{G}$ being complementary to $\mathfrak{G}'$, then $r(\mathfrak{G}'') \leq r$
It follows from theorem 2 that for the determination of all homogeneous spaces of rank 1 it suffices to consider the homogeneous spaces of the simple compact Lie groups $\mathfrak{G}$ If $\mathfrak{G}$ is commutative, then $X = S^1$ is a circle If $\mathfrak{G}$ is simple and not commutative, then all pairs (G,U) must be given (where G is a simple not commutative compact Lie algebra, U is its subalgebra) which yield the homogeneous spaces of rank 1 That is done in the form of a table in theorem 3 Numerous conclusions from theorem 3 are given
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Compact Lie Groups Being Transitive on Certain Manifolds

Theorem 4. Let $X = G/H$, where G is a connected compact Lie group, H is its connected closed subgroup. It holds $r(X) = 1$ then and only then if $H(X)$ is an algebra with one generator.
Theorems 5 and 6 give the properties of simple transitive groups of transformations following from theorem 4 (here the knowledge of the $P(X,t)$ for simple compact Lie groups is used).
There is 1 table and 7 references: 2 Soviet, 2 American, 2 French and 1 Japanese.

ASSOCIATION Moskovskiy gosudarstvennyy universitet imeni M.V Lomonosova (Moscow State University imeni M V Lomonosov)

PRESENTED: June 17, 1960, by P.S.Aleksandrov, Academician

SUBMITTED June 17, 1960

Card 3/3

ONISHCHIK, A.L.

Classification of stratified spaces. Dokl. AN SSSR 141 no.4: 803-806 D '61. (MIRA 14:11)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom P.S. Aleksandrovym.

(Spaces, Generalized) (Lie algebras)

ONISHCHIK, A.L.

Relations of inclusions between transitive compact transformation groups. Trudy Mosk. mat. ob-va 11:199-242 '62. (MIRA 15:10)
(Groups, Theory of)

ONISHCHIK, A.L. (Moskva)

Transitive compact groups of transformations. Mat. sbor. 60 [illegible] (MIRA 16:4)
Ap '63.

(Groups, Theory of)

ONISHCHIK, A.L.

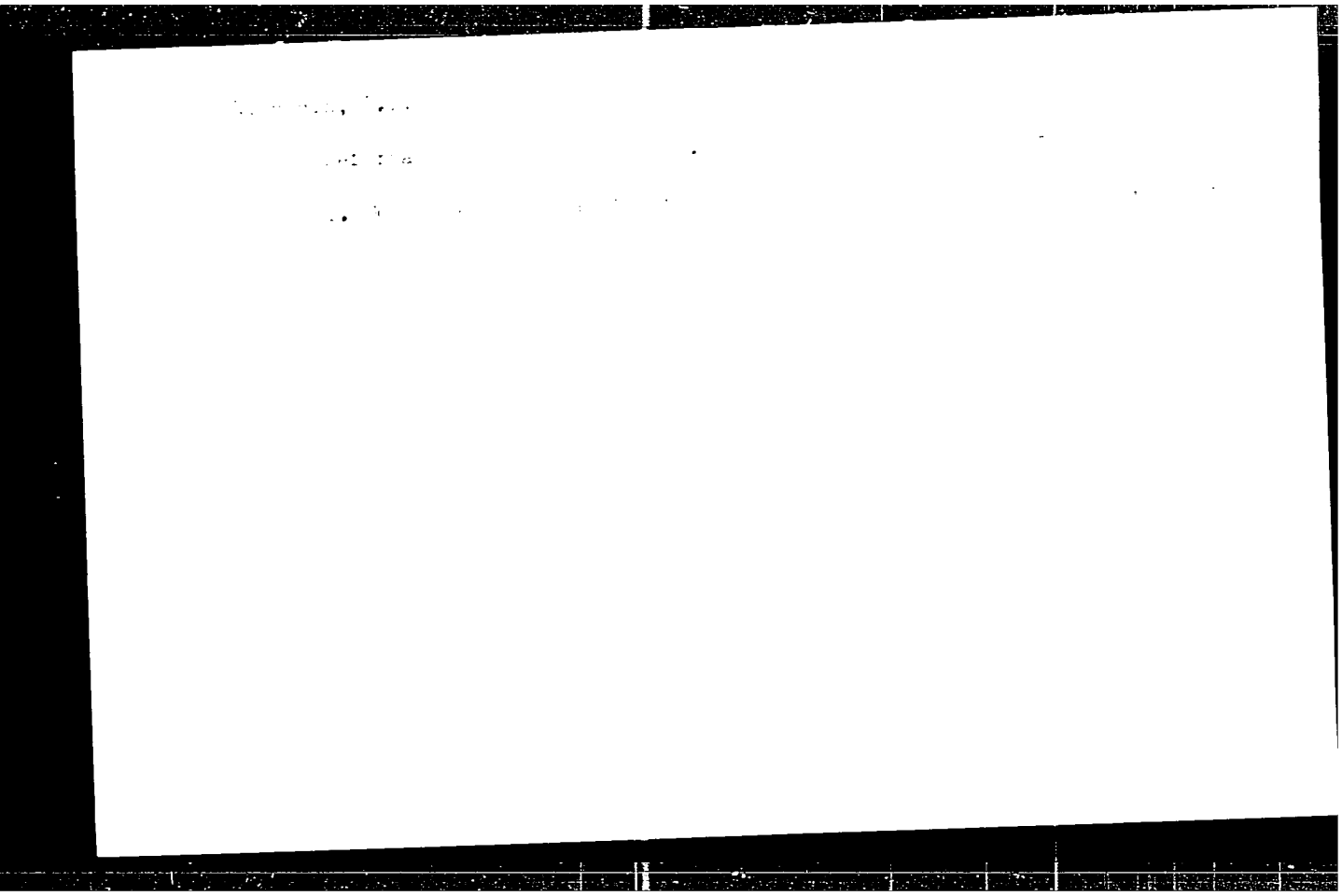
Semisimple [illegible] semisimple Lie algebras. Dokl. AN SSSR 149 no.[illegible] (MIRA 16:5)

1. Predstavlena akademikom P.S.Aleksandrovym.
(Lie algebras)

ONISHCHIK, A.L.

Zero-curve [illegible] and de Rham's theorem. Dokl. AN SSSR 159 no.5:988-991 D '64 (MIRA 18:1)

1. Moskovskiy gosudarstvennyy universitet. Predstavlena akademikom [illegible].



ONISHCHIK, L.I., doktor tekhn.nauk, prof.

Professor V.P.Nekrasov's so-called "theory of strength of masonry work." Stroi.prom. 27 no.11:25-26 N '49. (MIRA 13:2)

(Masonry)

ONISHCHIK, L. I.

STRELETSKIY, N.S., professor, doktor tekhnicheskikh nauk; KELDYSH, V.M., professor, doktor tekhnicheskikh nauk; GVOZDEV, A.A., professor, laureat Stalinskoy premii, doktor tekhnicheskikh nauk; ONISHCHIK, L.I., professor, doktor tekhnicheskikh nauk; GOL'DENBLAT, I.I., doktor tekhnicheskikh nauk; KARTASHOV, K.N., kandidat tekhnicheskikh nauk; BALDIN, V.A., kandidat tekhnicheskikh nauk; TAL', K.E., kandidat tekhnicheskikh nauk.

Discussion of the problem of building calculations using the method of limiting states. Stroi.prom. 32 no.4:41-42 Ap '54. (MLRA 7:5)

1. Chlen-korrespondent Akademii nauk, deystvitel'nyy chlen Akademii arkhitektury (for Streletskiy). 2. Vitse-prezident Akademii arkhitektury (for Keldysh). 3. Chlen-korrespondent Akademii arkhitektury (for Gvozdev). 4. Chlen-korrespondent Akademii arkhitektury (for Onishchik). (Building--Tables, calculations, etc.) (Reinforced concrete construction)

ONISHCHIK, L.I., prof., doktor tekhn.nauk; KORCHINSKIY, I.L., prof., doktor tekhn.nauk; BYKHOVSKIY, V.A., kand.tekhn.nauk; POLYAKOV, S.V., kand.tekhn.nauk; DYKHOVICHNAYA, N.A., inzh.; YUSFIN, I.M., inzh.; DUZINKEVICH, S.Yu., inzh., nauchnyy red.; MUNITS, A.P., red.izd-va; BOROVNEV, N.K., tekhn.red.

[Strength analysis of bearing masonry walls of buildings to be constructed in seismic regions and instructions for performing the analysis] Primer raschets na prochnost' kamennykh nesushchikh sten zdanii, vozvodimykh v seismicheskikh raionakh, i ukazaniia k primeru raschets. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1958. 24 p. (MIRA 12:2)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut stroitel'nykh konstruktsiy. 2. TSentral'nyy nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR (for Onishchik, Korchinskiy, Bykhovskiy, Polyakov). 3. Proyektnyy institut No.5 Ministerstva stroitel'stva RSFSR (for Dykhovichnaya, Yusfin).
(Earthquakes and building) (Walls)

ONISHCHIK, L.I., doktor tekhn.nauk, prof.

Lightening of bearing walls is the basic way of economizing wall materials. Trudy MIEI no.9:11-29 '58. (MIRA 11:6)
(Walls) (Building materials)

DMITRIYEV, A.S., kand.tekhn.nauk; ONISHCHIK, L.I., prof.; KOVAL'CHUK, M.F., inzh., red.; PETROVA, V.V., red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Instruction for using ceramic materials in finishing building façades (SN 52-59)] Instruktsiia po primeneniiu keramicheskikh materialov dlia oblitsovki fasadov zdanii (SN 52-59). Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1959. 27 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Laboratoriya kamennykh konstruktsiy TSentral'nogo nauchno-issledovatel'skogo instituta stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury SSSR (for Dmitriyev).
(Façades) (Tiles)

ONISHCHIK, L.I., doktor tekhn.nauk, prof.; YELKIN, A.V., dotsent; SMIRNOV, B.A., kand.tekhn.nauk; MANDRIKOV, A.P., kand.tekhn. nauk; SHLEINA, L.A., kand.tekhn.nauk; SUDARIKOV, A.A., inzh.

Increasing technical and economic effectiveness of basic designs of standard apartment houses. Trudy MIEI no.14:41-101 '59. (MIRA 13:1)

1. Moskovskiy inzhenerno-ekonomicheskiy institut. 2. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Onishchik).
(Apartment houses) (Architecture--Designs and plans)

ONISHCHIK, L.I., doktor tekhn. nauk, prof.; BUDARINA, E.M., red. izd-va; BOROVNEV, N.K., tekhn. red.

[Designing masonry with ceramic facing] Raschet kamennoi kladki s keramicheskoi oblitsovkoi. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1960. (MIRA 14:5)
140 p.

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Onishchik)
(Masonry) (Ceramic materials)

ONISHCHIK, R.

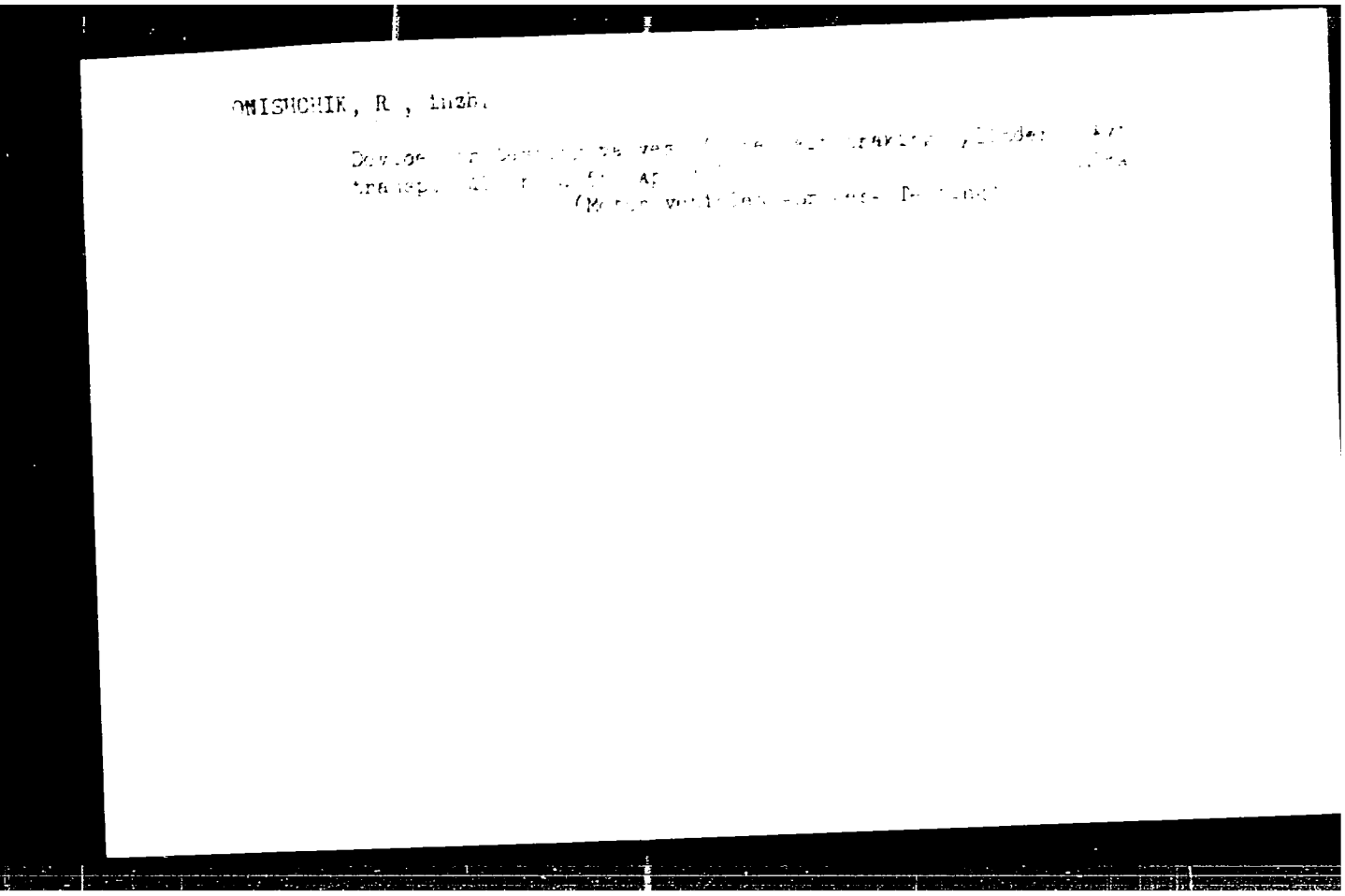
Passenger automobile train. Avt. transp. 36 no.12:44 D '58. (MIRA 11:12)

(Automobile trains)

ONISHCHIK, R., inzh.

Repairing compressor heads. Avt. transp. 37 no.2:52 F '59.
(MIRA 13:1)

(Automobiles--Brakes--Maintenance and repair)



OMISHCHIK, R , Lazb.

SOV/137-58-10-21622

Translation from Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 167 (USSR)

AUTHORS: Geller, Yu.A., Mel'nichenko, Ye.Y., Onishchik, Ye.I.

TITLE: The Role of Carbide Transformations in High-speed Steel Heated Into the A_1 Temperature Range (O roli karbidnykh prevrashcheniy v bystrorezhushchey stali pri nagreve vblizi oblasti A_1)

PERIODICAL: Metallovedeniye i term. obrabotka. Moscow, Metallurgizdat, 1958, pp 132-148

ABSTRACT: The effect of annealing time and temperature on properties of steel was studied on four separate smeltings of high-speed steel with different compositions (smelting 1 included the carbides Fe_2W_2C, $Cr_{23}C_6$, and VC; smelting 2 the carbides Fe_2W_2C and VC, smelting 3 the carbide Fe_2W_2C; and smelting 4 the carbide Fe_2W_2C with some positions in the lattice being replaced by Cr). It was established that an increase in anneal time produces transformations in the carbide phase and impairs the properties of the steel. The unstable carbide Fe_2W_2C is transformed into stable carbides WC and Fe_3C. During heating

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The Role of Carbide Transformations in High-speed Steel (cont.)

of steel for hardening purposes the WC does not dissolve and the solid solution contains insufficient amounts of W as a result, the hardness and red-shortness stability of the steel are impaired. The process of transformation of the metastable carbides Fe_2W_2C and WC is not reversible. Cr and small quantities of V tend to replace W atoms in the complex carbide Fe_2W_2C, thus increasing its stability and inhibiting the formation of WC, which, in turn, increases the resistance of steel to red shortness; this latter property is not directly affected by Cr or V. Introduction of Cr improves the hardenability of the steel. Cr-free steel exhibits a somewhat lower hardness after tempering (55-57 R_C instead of 63). Increasing the annealing time of a steel containing Cr and V, or V only, has no effect on its hardness nor on its resistance to red-shortness. In the case of a steel containing no Cr or V, the R_C value is reduced from 55-57 to 50. Increasing the anneal time to 100 hours increases the hardness of a steel which contains neither Cr nor V to an R_C of 65-66, and the hardness of steel containing V only to an R_C of 60. The authors explain this fact by the decomposition of the Fe_2W_2C into WC and Fe_3C and by the dissolution of the latter in a solid solution. Increasing the temperature and the time of anneal reduces the hardness (by two units) and impairs the cutting properties of steel that had been heated repeatedly to

Card 2/3

The Role of Carbide Transformations in High-speed Steel (cont.)

600°C. It is recommended that the temperature of anneal be lowered to 820-850° and that the soaking time, as well as the number of intermediate and prolonged heatings into the A_1 region, be reduced in order to increase the red-shortness stability of the steel.

F U.

1. Tool steel--Transformations 2. Tool steel--Temperature factors 3. Tool steel--Mechanical properties

Card 3/3

OMISHCHIN, B.P.; VYCHEROV, V.G.; MASTYKOV, G.F.

Electric smelting of oxidized nickel ores for the production of iron nickel. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 16 no.8:3-6 '63. (MIRA 16:10)

ONISHCHUK, A.Ye.

Synthesis of 4(5) -imidazolecarboxylic acid. Zhur.ob.khim.25 no.5:984-985 My'55. (MLRA 8:10)

1. Zapadno-Sibirskiy filial Akademii Nauk SSSR
(Imidazolecarboxylic acid)

ONISHCHUK, A.Ye.; NIKIFOROVA, O.K.

Synthesis of histamine from invert sugar. Zhur.prikl.khim. 29 no.5:789-793 My '56. (MLRA 9:8)
(Histamine) (Sugar)

ONISHCHUK, A.E.

Synthesis of histamine from invert sugar. A. E. Onishchuk and O. K. Nikiforova. *J. Appl. Chem. U.S.S.R.* 29, 853-7(1956) (Eng'sh translation).—See *C.A.* 50, 15515h. R. M. H.

2

ONISHCHUK, A.YE.

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4398

Author : Kulev, L.P., Cnishchuk, A.Ye.
Inst : Tomsk Polytechnic Institute
Title : Synthesis of Some Ethers of 4(5)-Hydroxymethylimidazole

Orig Pub : Izv. Tomsk. politekhn. in-ta, 1956, 83, 102-112

Abstract : By interaction of 4(5)-chloromethylimidazole (I) with an excess of alcoholate RONa (II) were obtained the 4(5)-alkoxymethylimisazoles N:CH-NH-CH:C-CH_2OR (III). It was not possible to prepare III from alkyl halide and III (R = Na) since at 20° III (R = H) does not react with Na, and their interaction at melting temperature results in decomposition. To a cooled solution of dry hydrochloride of I in alcohol is added a two-fold excess of alcoholic solution of II, the mixture is heated at 40-50° (30 minutes) and after maintaining it at 20° (for several hours) dilute HCl is added until a slightly acid reaction

Card 1/2 - 62 -

Card 2/2 - 63 -

ONISHCHUK, K.N., inzh.

Changes in combined rules for safety measures during blasting operations. Bezop.truda v prom. 1 no.10:35-37 O '57. (MIRA 10:11)
(Blasting)

OKHRIMENKO, V.A., inzh.; GOLLAND, Ye.B., inzh.; ONISHCHUK, K.N., inzh.

Intensify the promotion of hydraulic coal mining. Bezop. truda v prom. 2 no.12:4-7 D '58. (MIRA 11:12)
(Coal mines and mining)

ONISHCHUK, K., inzh.

Changes in safety regulations. Mast. ugl. 7 no. 6:18 Je '58.
(MIRA 11:7)

(Coal mines and mining--Safety measures)

ONISHCHUK, K.

Some changes in "Safety rules in coal and shale mines." Shakht. stroi. no.8:35-36 Ag '58. (MIRA 11:9)
(Coal mines and mining--Safety measures)

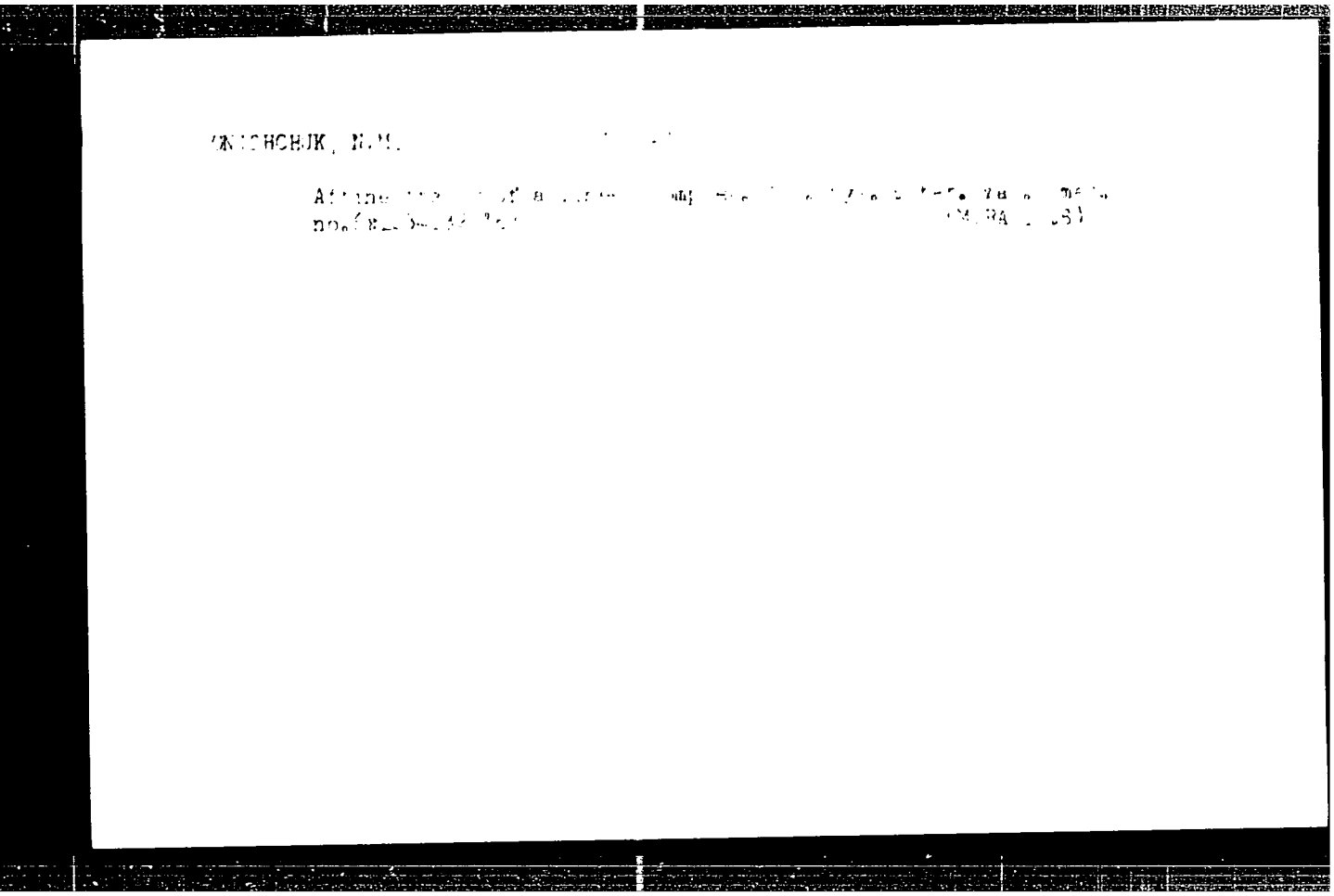
ONISHCHUK, M.D.

Growth of labor productivity in mining enterprises of the "Ogneupornerud" Trust. Met. i gornorud. prom. no.2:58-59 Mr-Ap '65. (MIRA 18:5)

ONISHCHUK, N.M.

Pair consisting of a congruence and a surface in equiaffine geometry. Trudy [illegible].

Frames of submanifolds in the pair theory consisting of a congruence and a surface in equiaffine geometry. Ibid.:107-114 (MIRA 17:1)



1. SKRIPKA, P.; ONISHCHUK, S.

2. USSR (600)

4. Cotton Growing

7. Deep plowing for cotton.
Khlopkovodstvo no. 8, 1952

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

L 31122-65

ACCESSION NR: AP5007163 S/0286/65/000/003/0037/0038

AUTHOR: Anisimov, S. B.; Onishchuk, T. P.

11
B

TITLE: A method for activating the phosphor in permanently luminous compounds. Class 22, No. 167919

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 3, 1965, 37-38

TOPIC TAGS: luminescence, artificial radioactivity, radioactive isotope, beta radiation, phosphor

ABSTRACT: This Author's Certificate introduces a method for activating the phosphors in permanently luminous compounds by introducing a β-active isotope into the compound. In order to improve the quality and decrease the toxicity of the material, an artificial radioactive isotope, thallium-204, is used as the activator.

ASSOCIATION: none

SUBMITTED: 22Aug62 ENCL: 00 SUB CODE: OP, NP

NO REF SOV: 000 OTHER: 000

Card 1/1

ONISHCHUK, V.A., kand.pedagogicheskikh nauk

Use of textbooks in laboratory work on botany. Biol. v shkole no.3 28-30 My-Je '62. (MIRA 15:7)

1. Nauchno-issledovatel'skiy institut pedagogiki USSR.
(Botany—Study and teaching)

L 18771-66 EWT(1)
ACC NR: AP6002739 SOURCE CODE: UR/0056/65/049/006/1938/1941

AUTHORS: Lyuboshits, V. L.; Onishchuk, V. A.; Podgoretskiy, M.I.

ORG: Joint Institute of Nuclear Research (Ob"yedinennyy institut yadernykh issledovaniy)

TITLE: Anisotropy of radiation of the hydrogen atom in an electric field.

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 6, 1965, 1938-1941

TOPIC TAGS: hydrogen atom reaction, quantum field theory, transition radiation

ABSTRACT: This is a continuation of an earlier investigation by the authors (Preprint, OIYaI, R-2248, Dubna, 1965) of the effect of mixing quantum levels by means of external fields on radiative transitions of atoms, and the interference effects which arise in the transitions of atoms located in a homogeneous electric fields. In the present paper the authors discuss interference effect in the radiative transi-

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L 18771-66
ACC NR: AP6002739

tions of atomic hydrogen in an external electric field, where noticeable interference effects can be expected even with weak fields, owing to the smallness of the separation between levels having the same j but different l, and also between levels with different j. The transition between the first excited state and the ground state of hydrogen is studied by way of an example for which the actual calculations are made. It is shown that whereas in a homogeneous electric field mixing will occur between all the three levels $2P_{1/2}$, $2S_{1/2}$, and $2P_{3/2}$, and interference will occur for the E1 transitions because of the mixing, in the case when the Stark shift of these levels is much less than the separation between them (fields weaker than 500 v/cm), the $2P_{3/2}$ level mixes with the $2P_{1/2}$ level and noticeable anisotropy and partial linear polarization appear. Similar effects can occur for transitions between levels with larger quantum numbers. However, these come into play at considerably weaker fields. For an anisotropy in the angular distribution of radiation of about 0.1, the field required for the $2P_{1/2} \rightarrow 1S_{1/2}$ transition is 500 v/cm, but for the

Card 2/3 mgs

L 18771-66
ACC NR: AP6002739

$3S_{1/2} \rightarrow 2P_{1/2}$ transition it is only about 50 v/cm. Orig. art. has: 1 figure and 12 formulas.

SUB CODE: 20/ SUBM DATE: 23Jul65/ ORIG REF: 002/

Card 3/3 mjg 5

ONISHCHUK, V.F. (Ternopol')

Effect of resort therapy at Truskavets on gastric acidity and secretion in gastric surgery patients. Vrach.delo supplement '57:38 (MIRA 11:3)

(STOMACH--SECRETIONS)

ONISHCHUK, V.F.

Changes in the peripheral bloo and erythrocyte sedimentation resulting from sanatorium therapy in rate patients with stomach diseases following gastric surgery. Vrach.delo no.3:303-304 Mr'58 (MIRA 11:5)

1. Kurort "Truskavets" (nauchnyy rukovoditel' raboty - prof. T.T. Glukhen'kiy)
(BLOOD--ANALYSIS AND CHEMISTRY)
(STOMACH--SURGERY)

ONISHCHYK, V.F.

Late results of gastric resection and palliative operations in peptic ulcer; from data of the Truskavets health resort. Sov.med. 23 no.11:97-102 N '59. (MIRA 13:3)

1. Iz kurorta Truskavets (direktor S.F. Fedotov, nauchnyy rukovoditel' i konsul'tant - prof. T.T. Glukhen'kiy).
(PEPTIC ULCER surgery)

ONI[illegible], V. F. Cand Med Sci -- "Truskavets health-resort ~~treatment~~ of patients who have ~~undergone~~ ulcer ~~operations~~." Ternopol', 19[illegible] [illegible] L'vov [illegible] Med Inst . (KL, [illegible]-61, [illegible])

ONISHENKO, Yuliy Antonovich; GORITSKIY, A.V., otvetstvennyy redaktor; SMIRNOV, L.V., redaktor izdatel'stva; NADEINSKAYA, A.A., tekhnicheskiy redaktor

[Loading of rock in horizontal mining] Pogruzka porody pri provedenii gorizontal'nykh gornykh vyrabotok. Moskva, Ugletekhnizdat, 1956. 59 p. (Mining engineering) (MLRA 9:7)

AUTHOR: STUKALOV,M.I., ONISHKO N.S , and SEKHTMAN,S.D PA - 2404
engineers.

TITLE: Liquid Slag Removal from Soaking Pits (Zhidkoye shlakoudaleniye iz nagrevatel'nykh kolodtsev, Russian).

PERIODICAL: Stal', 1957, Vol 17, Nr 2 pp 169 173 (U.S.S.R.)
Received: 5 / 1957 Reviewed: 5 / 1957

ABSTRACT: The cogging mill trains erected after the second World War are all equipped with recuperative soaking pits; those built before the war, however, are furnished with regenerative soaking pits. Slag removal can be achieved in the liquid state by reducing melting temperature if small amounts of boiler - slag are poured into the soaking pits. Transition to liquid slag removal in recuperative, soaking pits increases the efficiency of the pits, improves the quality of the ingot heating, and increases the output of suitable material. It is no longer necessary to throw the precipitated coke into the pits, which increases the resistance of the recuperators, lowers costs and improves working conditions. The addition of boiler slag is also recommended for the regenerative soaking pits, as this increases their efficiency and improves the resistance of the regenerators and of the platinum-platinum-elements.

Card 1/2 (5 illustrations and 4 tables).

PA - 2404

Liquid Slag Removal from Soaking Pits

ASSOCIATION: Azovstal'-Plant and Tsentroenergochermet
PRESENTED BY:
SUBMITTED:
AVAILABLE: Library of Congress

Card 2/2

SOV/133-59-9-20/31

AUTHORS: Dygalo, M.I. and Onishko, N.S.

TITLE: Kaolinite Refractories for Covers of Soaking Pits

PERIODICAL: Stal', 1959, Nr 9, pp 850-852 (USSR)

ABSTRACT: A description of the properties of kaolinite refractories used for lining covers of recuperative soaking pits on the Veliko-Anadol'skiy Works (Donets basin) is given. A comparative test of the service life of the kaolinite and chamotte refractories in the soaking pit covers was carried out. After a period of six months the wear of the kaolinite bricks was more than twice as low as that of the chamotte bricks. There are 3 figures and 4 Soviet references.

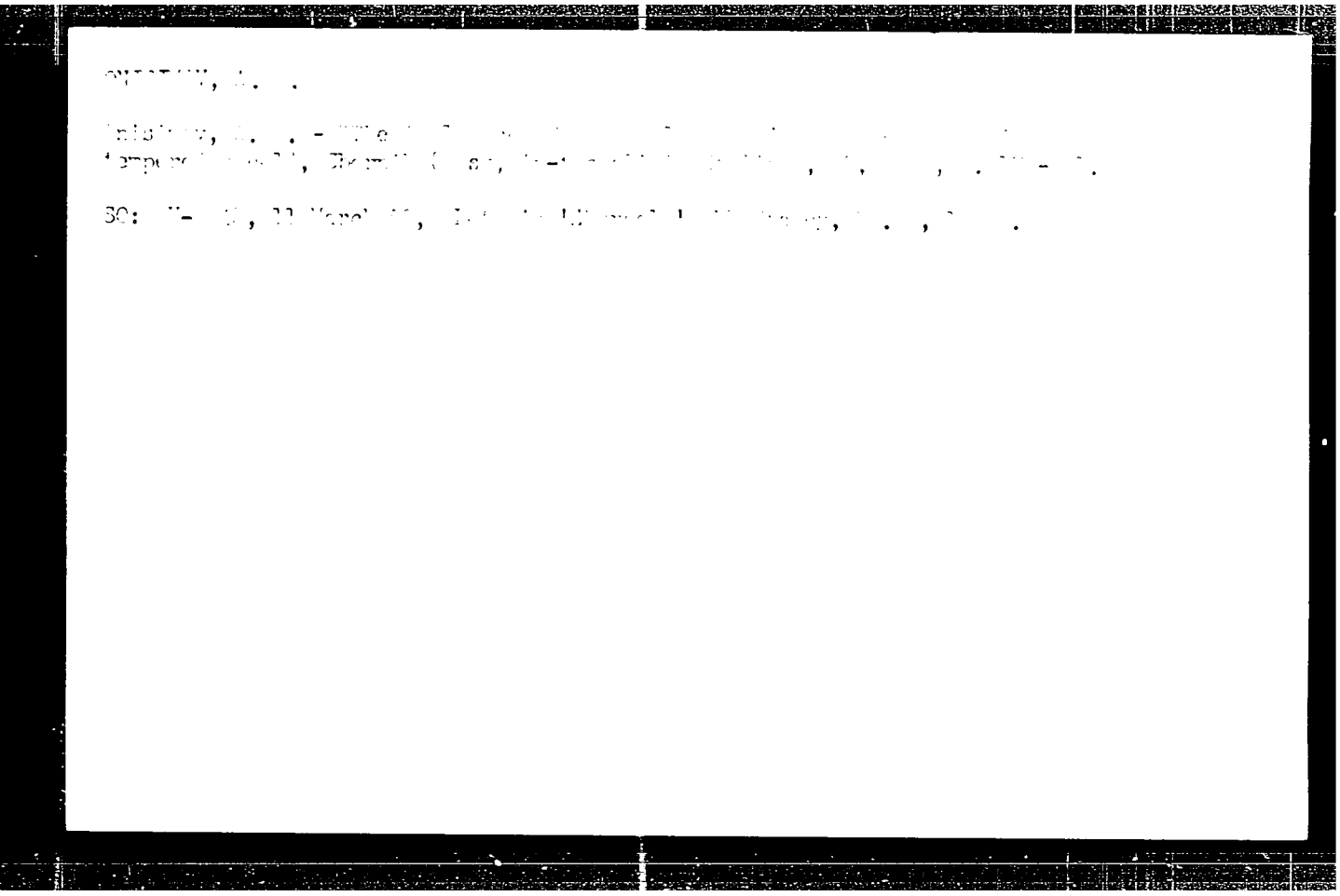
ASSOCIATIONS: Ukrainskiy n.i. institut ogneuporov (The Ukrainian Scientific-Research Institute of Refractories); Zavod "Azovstal'" ("Azovstal'" Works)

Card 1/1

NOVIKOV, I.M.; SAPRONOV, V.A.; ONISHENKO, Z.V.; SIMAKOVA, E.P.; BEL'SKAYA, Yu.P.; BALASHOVA, T.L.; Prinimali uchastiye: KALINICHENKO, V.N.; LITVINENKO, L.A.

Granulation of butadiene-styrene and natural rubber in the Dniepropetrovsk Rubber Tire Plant. Kauch. i rez. 22 no.12: 44-48 D '63. (MIRA 17:9)

1. Dnepropetrovskiy shinnyy zavod (for all except Kalinichenko, Litvinenko). 2. Dnepropetrovskiy filial Nauchno-issledovatel'skogo instituta shinnoy promyshlennosti (for Kalinichenko, Litvinenko).

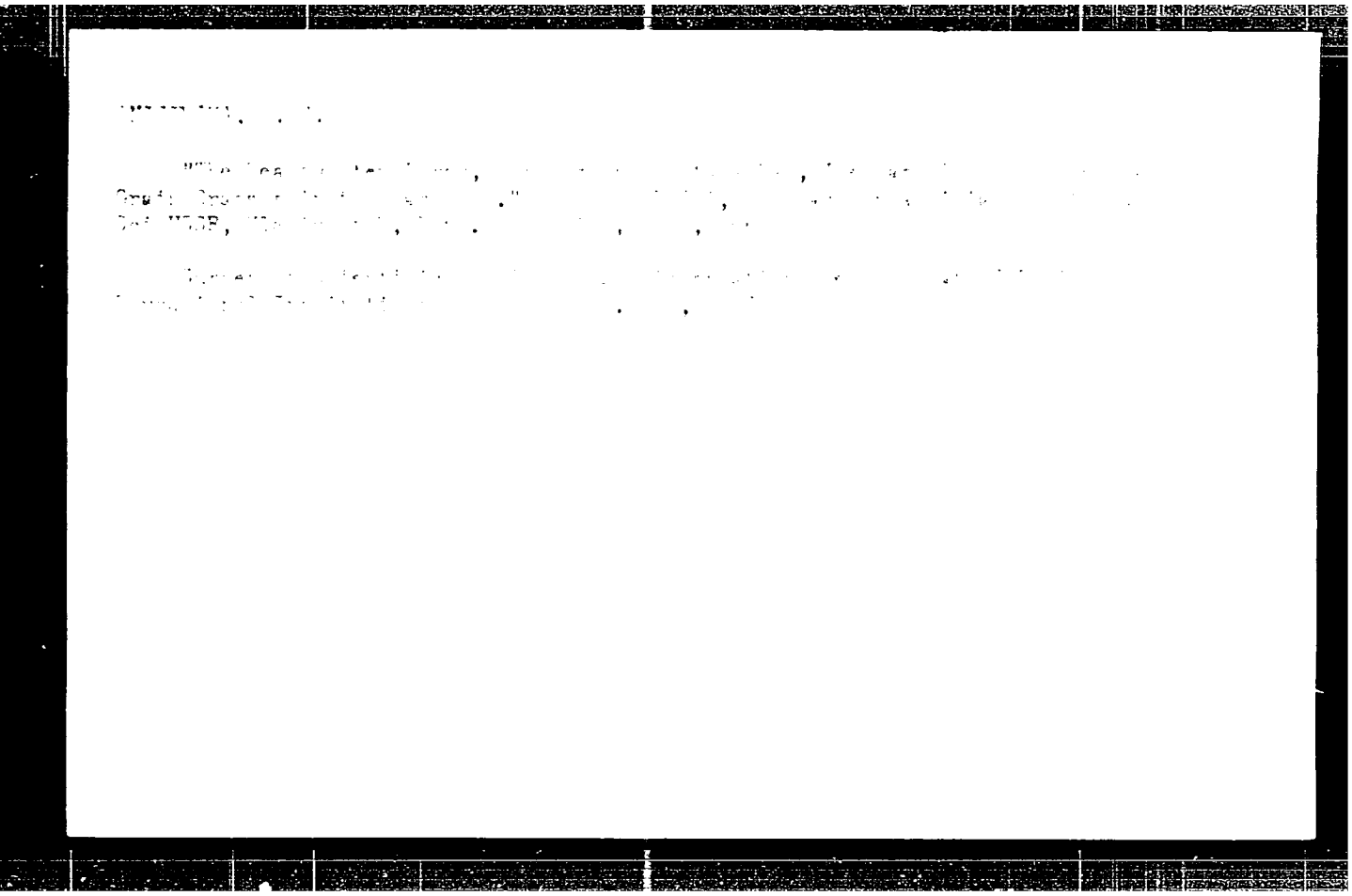


DYATLOV A.I., MALY[illegible] Z.[illegible], [illegible]SIMOVA, S.I.

Infection [illegible] greater gerbils by leishmaniasis in Karaku[illegible] District Bukhara Province. Med. paraz. i paraz. bol. [illegible] no.3: 30[illegible]-308 My-Je[illegible]

(MIRA [illegible])

1. Iz Bukhar[illegible] [illegible] imeni [illegible] [illegible]



AZBUKINA, Zinaida Maksimovna, kand.biolog.nauk; ONISIMOVA, Zinaida Grigor'yevna, kand.biolog.nauk; MAKEDONOV, B., otv.red.; BEL'TYUKOV, B., tekhn.red.

[Corn diseases and pests in the Maritime Territory and their control] Bolezni i vrediteli kukuruzy v Primorskom krae i mery bor'by s nimi. Vladivostok, Primorskoe knizhnoe izd-vo, 1956. 74 p. (MIRA 14:1)
(Maritime Territory--Corn--Diseases and pests)

ONISIMOVA, Z.G.

Case of mass reproduction of the pale leaf beetle, Luperodes pallidulus Baly., in the Maritime Territory. Sooh.DVFAN SSSR no.9:147-149 '58. (MIRA 12:4)
(Pozharskoye District--Leaf beetles)

QNISIMOVA, Z.G.

Bollworm moth (Chloridea obsoleta F.), a new harmful insect in the Soviet Far East. Soob.DVFAN SSSR no.11:144-145 '59.(MIRA 13:11)

1. Dal'nevostochnyy filial imeni V.L.Komarova Sibirskogo otdeleniya AN SSSR.

(Soviet Far East--Bollworm)

ONISIMOVA, Z.G., starshiy nauchnyy sotrudnik; VAVILOV, L.N.

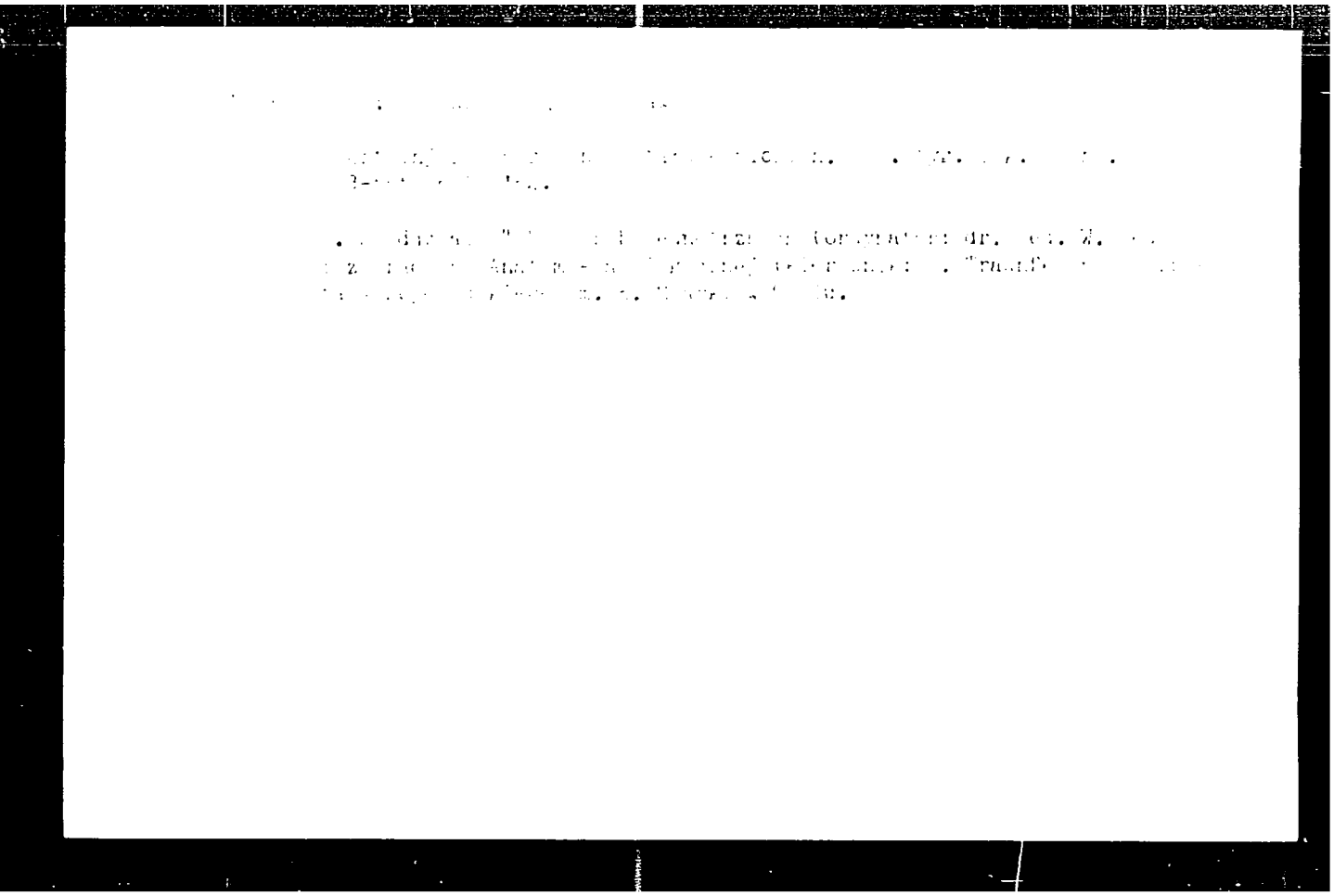
The meadow moth Cirphis unipuncta Haw., a scourge of grain crops in the Far East. Zashch.rast.ot vred.i bol. 5 no.3:23-25 Mr '60. (MIRA 16:1)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR (for Onisimova). 2. Starshiy inspektor Primorskoy krayevoy inspektsii po karantinu rasteniy (for Vavilov).
(Soviet Far East—Grain—Diseases and pests)
(Soviet Far East—Moths—Extermination)

ONISIMOVA, Z.G.

Development of insect pests of red clover in the Far East. Soob. DVFAN SSSR no.12:151-153 '60. (MIRA 13:11)

1. Dal'nevostochnyy filial Sibirskogo otdeleynia AN SSSR.
(Soviet Far East—Clover—Diseases and pests)



ONISK, Zbigniew; JERZMANOWSKI, Antoni

Determinations of anti-alphastaphylolysin levels in patients treated at the Dermatological Department of the Medical Academy of Lodz. Przegl. derm. 49 no.6:523-530 '62.

1. Z Kliniki Dermatologicznej AM w Lodzi Kierownik: prof. dr J. Lutowiecki i Zakladu Bakteriologii AM w Lodzi Kierownik: z-ca prof. dr A. Ganczarski.
(DERMATOLOGY) (STAPHYLOCOCCAL INFECTIONS)

CZERNIELEWSKI, Antoni; ONISK, Zbigniew; WIACEK, Tadeusz

On the problem of complications during the course of gold salt therapy. Pol. tyg. lek. 18 no.4:134-136 21 Ja '63.

1. Z Kliniki Dermatologicznej AM w Lodzi; kierownik: prof. dr med. Jerzy Lutowiecki.
(GOLD) (ARTHRITIS, RHEUMATOID)

O[illegible]ISK. Zbigniew; SZYDLOWSKI, A[illegible]

Immunoelectrophoresis [illegible] dermatology. Immunoele[illegible] studies on serum [illegible] in [illegible] selected dermat[illegible] problems. Przegl. derm. [illegible] -D[illegible]

1. Z Katedry Derma[illegible] WAM w [illegible] (Kierownik [illegible] L. Lukowski) i z Katedry Pat[illegible] D[illegible] WAM w Lodzi ([illegible] R. Filipo[illegible]).

*

ONISK, Zbigniew

Behavior [illegible] early syphilis. [illegible]

1. Z Katedry Dermatologii wojskowej AM w Łodzi (Kierownik prof. dr. [illegible] z Katedry Epidemiologii wojskowej i Doświadczalnej wojskowej AM w Łodzi (Kierownik dr. R. Pławski).

AFANAS'YEV, N.; SIL'NOV, V., glavnyy inzh.; BACHILOV, I.; CHERTKOV, A., glavnyy konstruktor; SOKOLOV, Ya.; ONISKO, A.; TRUKHANOVA, A., tekhred.

[Trench-type silo with a capacity of 60, 90, and 150 tons (walls lined with brick or rubble concrete)] Silosokhranilishche transheinogo tipa emkost'iu 60, 90 i 150 tonn (steny oblitsovany kirpichom ili butobetonom). Proekt no.004. Minsk, Gos.izd-vo BSSR, Red.nauchno-tekhn.lit-ry, 1955. 3 p. (MIRA 11:4)

1. White Russia. Ministerstvo gorodskogo i sel'skogo stroitel'stva. 2. Direktor "Belsel'proyekta" (for Afanas'yev). 3. Rukovoditel' masterskoy "Belsel'proyekta" (for Bachilov). 4. Ispolnyayushchiy obyazannosti nachal'nika smetnogo sektora "Belsel'proyekta" (for Sokolov). 5. "Belsel'proyekt" (for Sil'nov, Chertkov, Oniskо).
(Silos)

SYUNDYUKOV, Kh.Kh., kandidat sel'skokhozyastvennykh nauk; CHISKO, N.F.

Tillage for sowing the fourth crop on virgin and waste lands.
Dokl.Akad.sel'khoz. 21 no.11:3-8 '56. (MLRA 9:12)

1. Kazakhskiy filial Vsesoyuznoy akademii sel'skokhozyastvennykh nauk imeni Lenina. Predstavleno akademikom I.V.Yakushkinym.
(Ruzayevka District--Tillage)

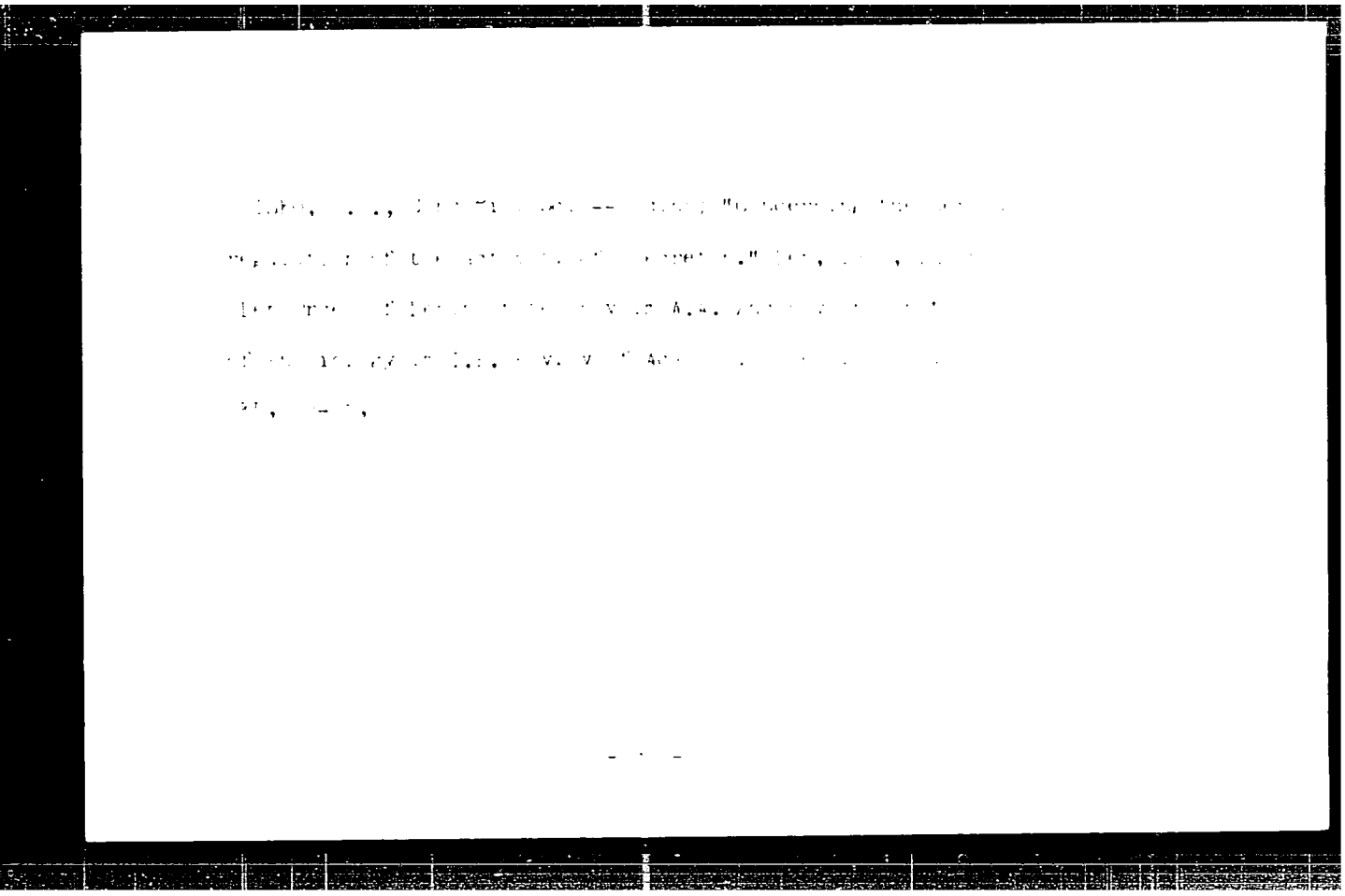
ONIS'KO, N.I. (Novosibirsk); SHEMYAKIN, Ye.I. (Novosibirsk)

Movement of the free surface of a homogeneous soil in an underground explosion. *PMTF* no.4:82-93 Jl-Ag '61. (MIRA [illegible])
(Soil mechanics) (Explosions)

ONISKO, O.G.

Conditioned pancreatic secretion in response to the action of secretion. Trudy Inst. fiziol. 6:366-376 '57. (MIRA 11:4)

1. Laboratoriya interotseptivnykh uslovnykh refleksov i Laboratoriya vyashey nervnoy deyatel'nosti Leningradskogo gosudarstvennogo universiteta (zaveduyushchiy E. Sh. Ayrapet'yants).
(PANCREAS--SECRETIONS) (CONDITIONED RESPONSE) (SECRETIN)



ONISKO, O.G.

Role of the nervous system in the action of secretin [with summary in English]. Biul.eksp.biol. i med. 45 no.3:7-11 Mr'58 (MIRA 11:5)

1. Iz laboratorii interotseptivnykh uslovnykh reflksov (zav. - prof. E. Sh. Ayrapet'yants) Instituta fiziologii imeni I.P. Pavlova (dir. akademik K.M. Bykov) Akademii nauk SSSR i laboratorii vysshei nervnoi deiatel'nosti (zav. - prof. E.Sh. Ayrapet'ants) Leningradskogo gosudarstvennogo universiteta. Predstavlena akademikom K.M. Bykovym.

(SECRETIN, effects,
on intestinal receptors, blood pressure & resp. reactivity (Rus))
(INTESTINES, effect of drugs on,
secretin, blood pressure & resp. reactivity (Rus))
(BLOOD PRESSURE, physiology
eff. of secretin on intestinal receptors (Rus))
(RESPIRATION, physiology,
same)

ONISKO, O.G.

Mechanism of the action of secretin. Uch. zap. LGU no.239:89-100 '58. (MIRA 12:1)

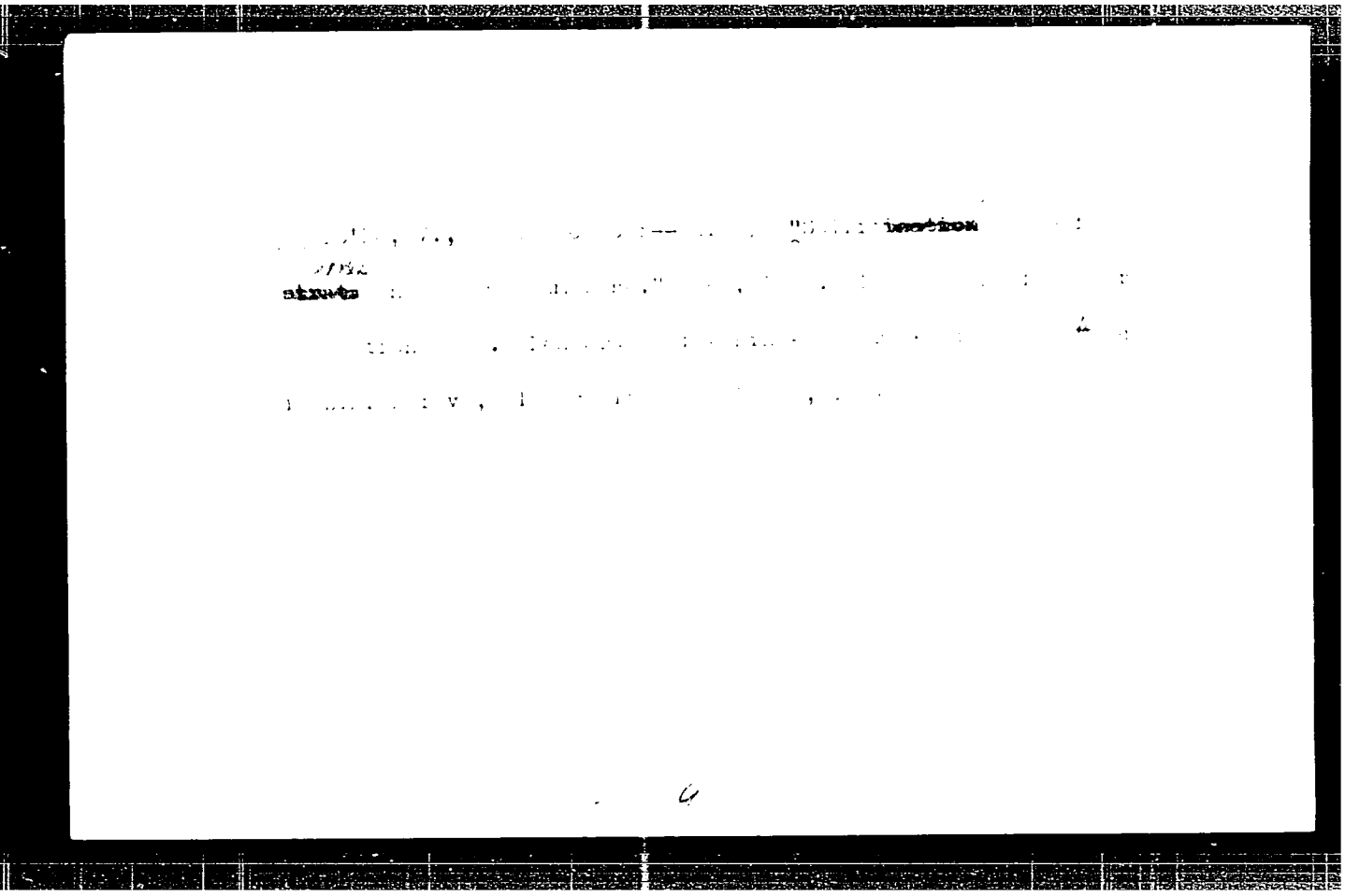
1. Laboratoriya fiziologii vysshey nervnoy deyatel'nosti Fiziologicheskogo instituta Leningradskogo gosudarstvennogo universiteta i laboratoriya interotseptivnykh uslovnykh refleksov Instituta fiziologii AN SSSR.

(SECRETIN)

ONISKO, O.G.

Materials on an analysis of the external reflex activity of the pancreas during feeding with various kinds of food. Trudy Inst. fiziol. 9:120-125 '60. (MIRA 14:3)

1. Laboratoriya interotseptivnykh uslovnykh refleksov i Laboratoriya vysshey nervnoy deyatel'nosti Leningradskogo gosudarstvennogo universiteta (zaveduyushchiy - E.Sh.Ayrapet'yants).
(PANCREAS--SECRETIONS)



ONISKO, Wlodzimierz, dr.

Sulfite cooking of poplar wood in the vapor-gas phase with the use of ammonia base. Przegl papier 19 no.10:309-312 O '63.

1. Katedra Chemicznej Technologii Drewna, Szkola Glowna Gospodarstwa Wiejskiego, Warszawa.

ONISKO, Wlodzimierz, dr.

Sulfite cooking of poplar wood during the vapor-gas phase with the use of amonia base. Pt. 2. Przegl papier 19 no.12: 380-383 D'63.

1. Katedra Chemicznej Technologii Drewna, Szkola Glowna Gospodarstwa Wiejskiego, Warszawa.

Be

8-I-5

Influence of the constituents of carbon steels on their tensile strength in the forged and annealed state. [illegible] (Bull. sci. Ecole polyt. Timişoara, [illegible], [illegible]—144; Chem. Zentr., [illegible], ii, 686).—Soft, medium, and hard steels were cast under the same conditions, forged to 80% reduction of cross-section, and annealed below the A3 point. The effect of C, Mn, Si, and P on the tensile strength, R, expressed in kg./sq. mm., is given by $R = 26{\cdot}1 + 53 \times C + (11{\cdot}[illegible] + 40{\cdot}6 \times C^2) \times Mn + 11 \times Si + 77{\cdot}3 \times P$. The effect of S was negligibly small.

H. J. F.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

ONITIU, F.

Statistical methods to analyze the techn logical processes of the operative quality control in the industrial productin. METALURGIA SI CONSTRUCTIA DE MASINI (Metallurgy and Machine Constructin.) 1:59:Jan 55

CNITIU, F.

The orerative, static control of quality based on measurement. METALUR I. SI CONSTRUCTIA DE MASINI (Metallurgy and Machine Construction.) 2:42:Feb 55

ONITIU, E.

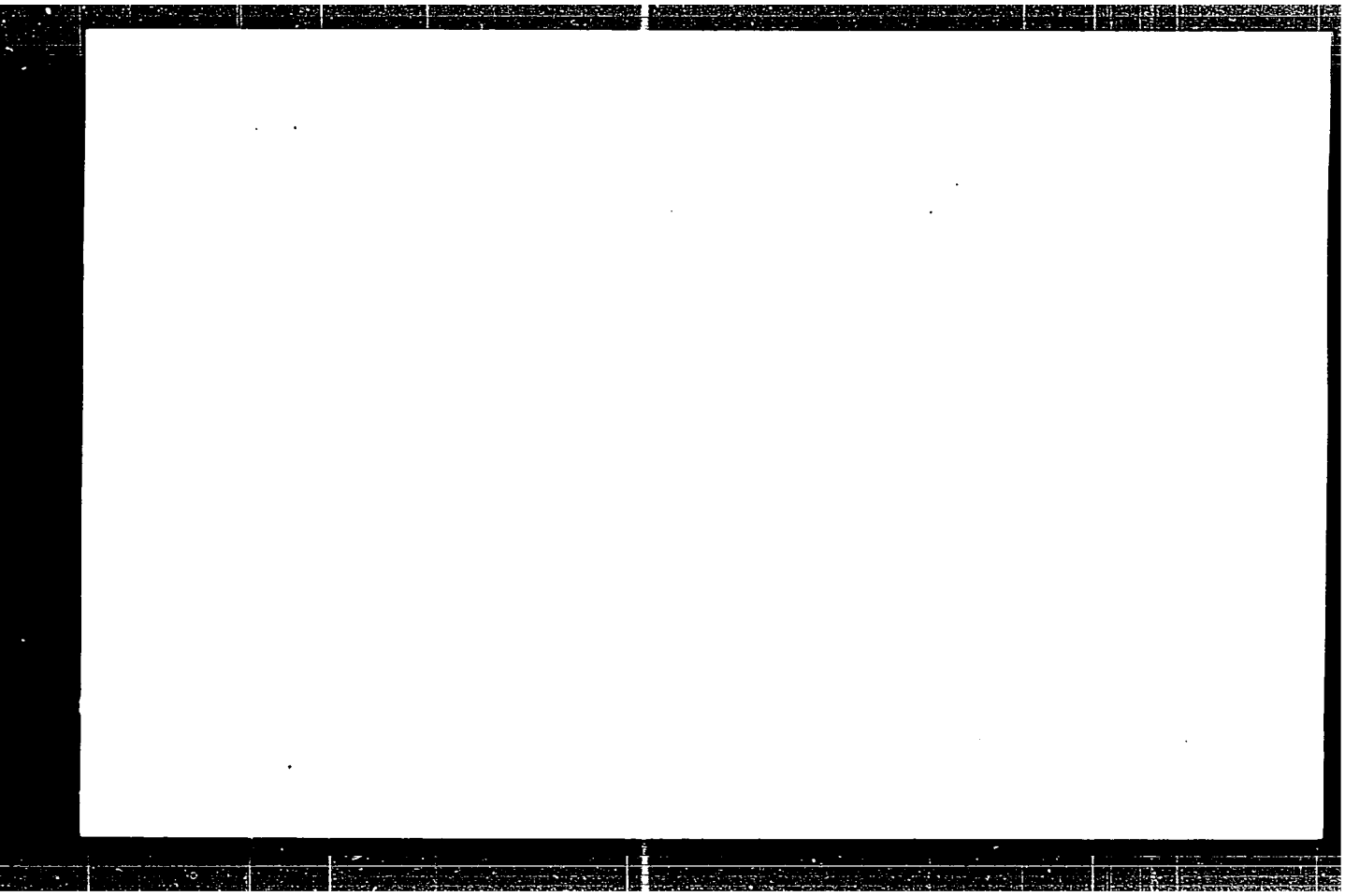
Rules for the application of the plane parallel precision gauge block in enterprises. p. 8

METROLOGIA APLICATA.

Vol. 2, no. 3, Mar. 1955

Rumania

Source: EAST EUROPEAN LISTS Vol. 5, no. 10 Oct. 1956



CNITIU, F.

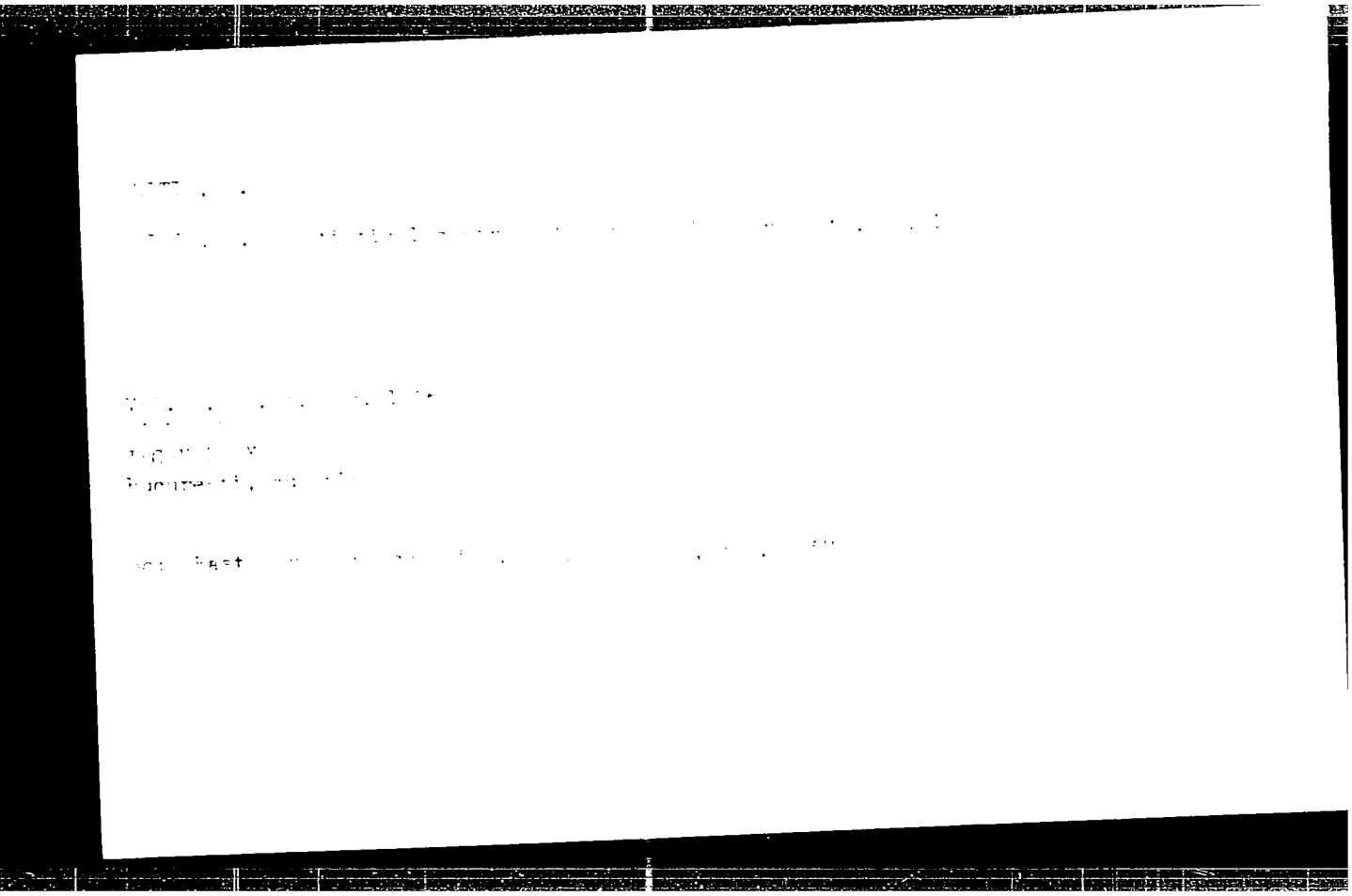
The arithmetical mean, prescription for quality in standards. p.20. (STA[illegible], Bucuresti, Vol. [illegible], No. [illegible], Mar. 1955)

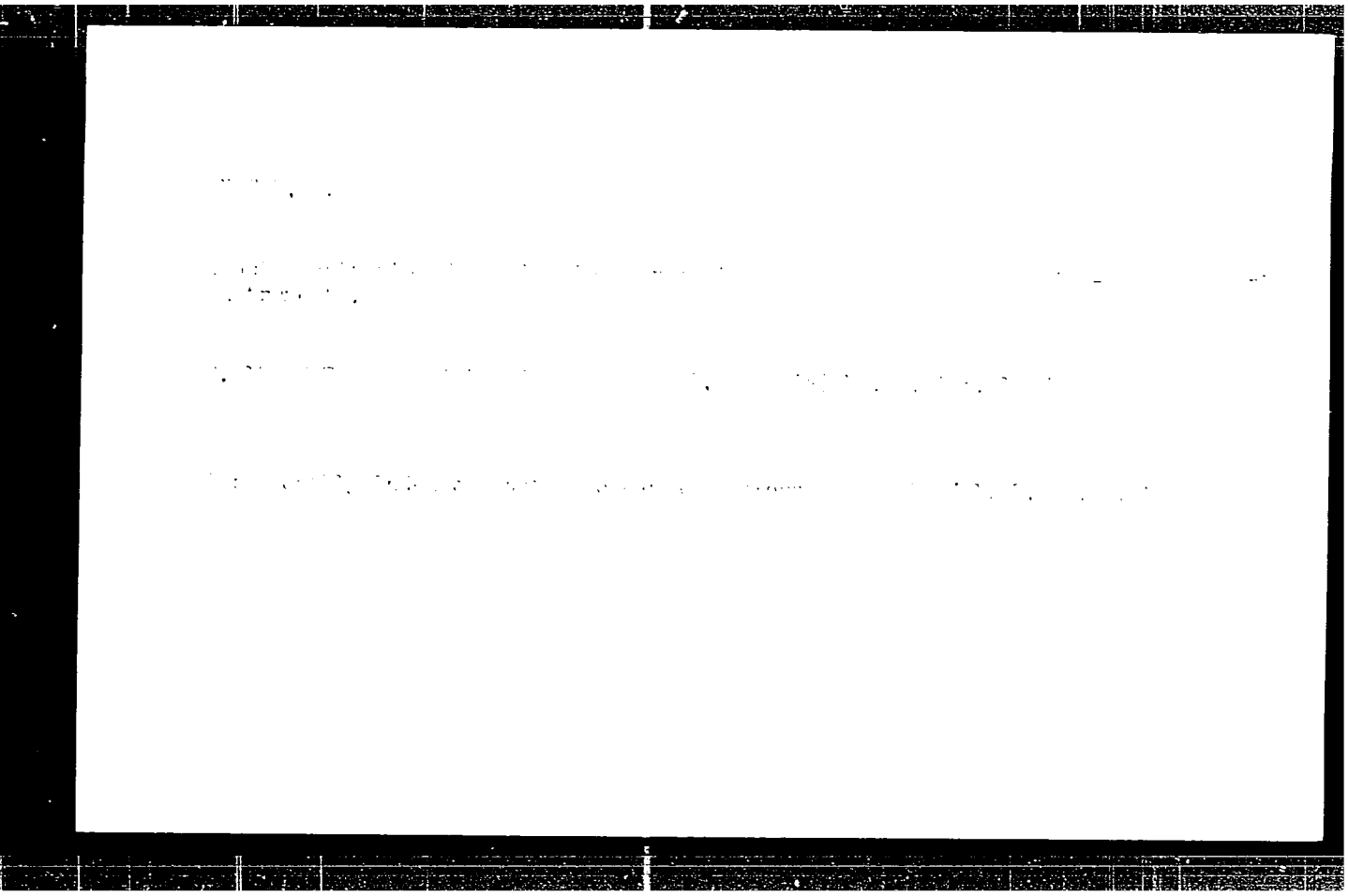
SO: Monthly List of East European Accessions, (EEAL[illegible], LC., Vol. 4, No. [illegible], June 1955, Uncl.

CNITTU, F.

Is calculation of the breaking strength of cement, based on the 4 best results out of 6, correct? p. 21. STANDARDIZAREA. Bucuresti. Vol. 7, no. 8, Aug. 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956.





ONITIU, F. (Doc. Dipl.-Ing.)

F. Onitiu, "Die Ueberwachung der Qualitaet von Messgeraeten durch statisitische Methoden," Feingeraete Technik (Berlin), 6/9, September 1957, pp. 402-4.

The author is deputy scientific director of the Institute for Metrology, Bucharest. His photograph appears with the article.

[illegible], F.

SCIENCE

Periodicals: [illegible]

[illegible] results obtained by means of weighing a standard weight of 2 [illegible]

Monthly List of East European Accessions (EEAI) LC, Vol. [illegible], No. [illegible], February 19[illegible], Unclass.

ONITIU, I., ing.

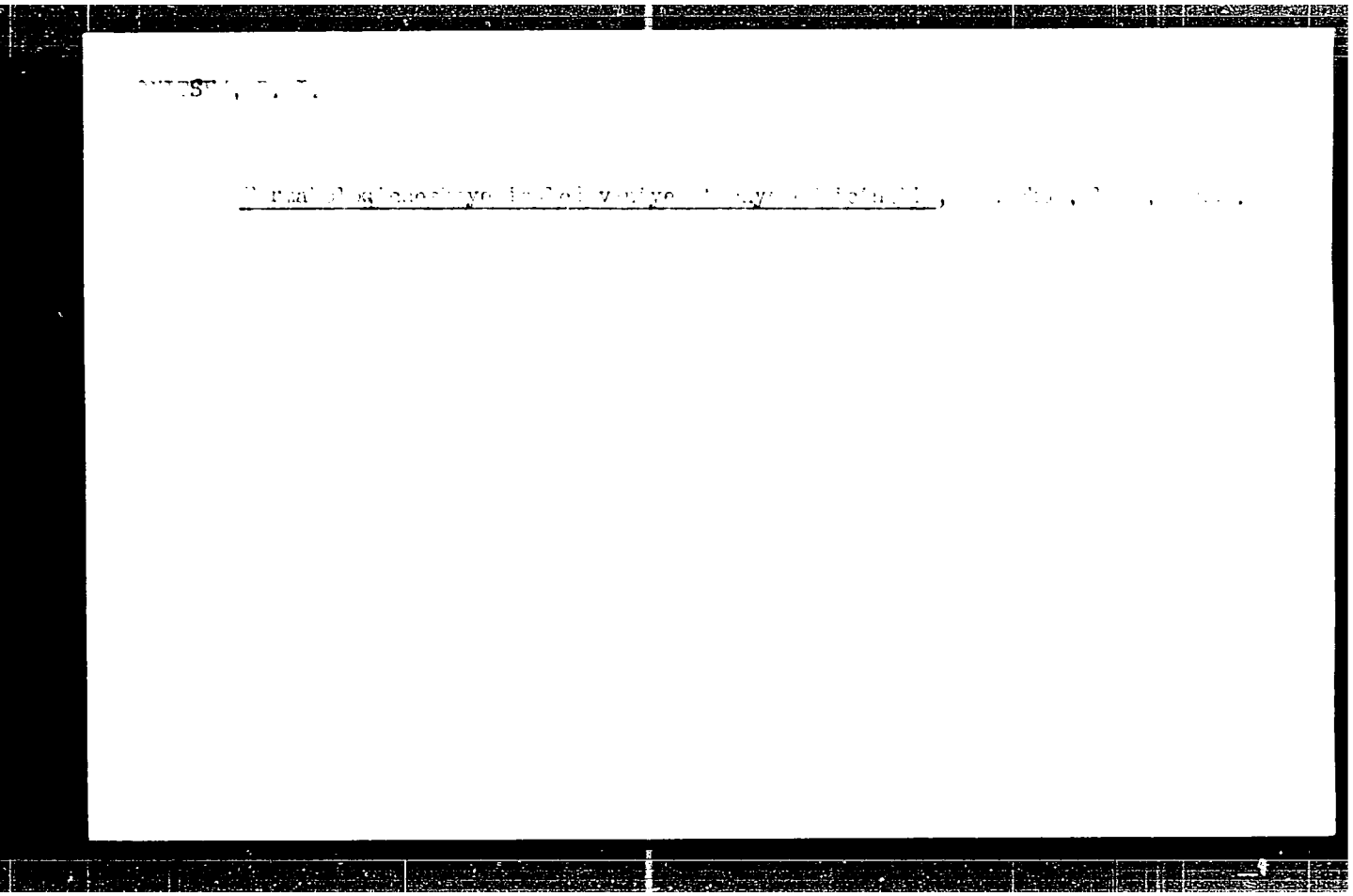
Mechanization of the manufacturing process of asphalt mixtures at the Malnas section of the Institute of Highway Research, Deva. Rev transport 8 no. 3:127-130 Mr '61.

MITROIU, O.; BARBU, C.; CAJAL, N.; DEMETRESCU, R.; IONESCU, T.; POPA, M.; in colaborare cu [illegible] L.SCU, M.; DOBRESCU, G.; OLTIS, L.

Etiological investigations of epidemic hepatitis. I. The study of several viruses cultivated in cell cultures from cases of epidemic hepatitis. Stud. cercet. inframicrobiol. 13 no.3:319-327 '62.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R.

(HEPATITIS, INFECTIOUS) (HEPATITIS VIRUSES)
(VIRUS CULTIVATION) (TISSUE CULTURE)



[illegible], P. I.

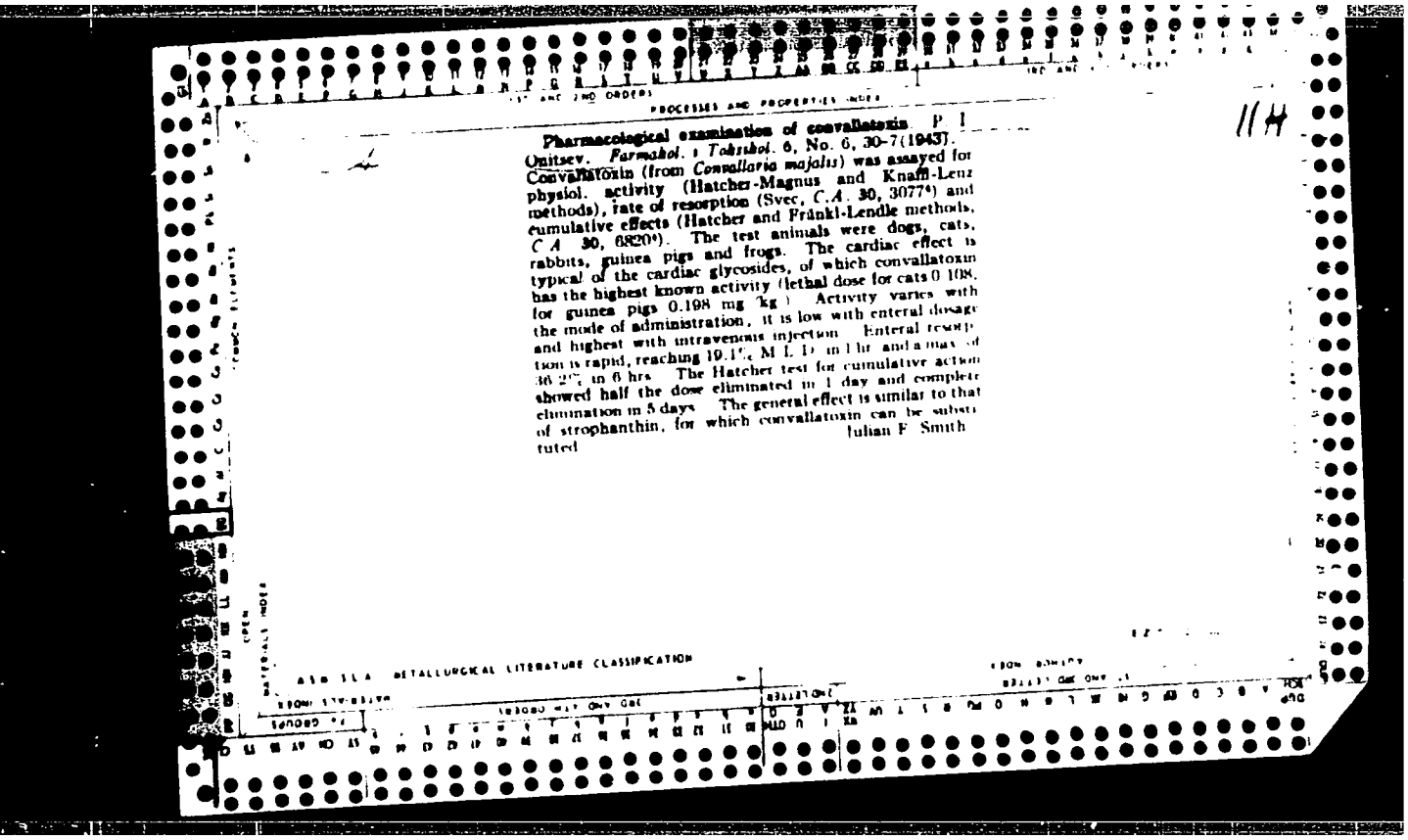
[illegible] Pharmacological Lab, Res. Pharm. Inst., 1942.

"Pharmacological [illegible] Sodium [illegible] (B-Br [illegible] - Barbituric Acid; [illegible]," Farmakol. i Toksikol., 5, No. 3, 1942;

"Pharmacological Investigation [illegible] Salt of 5-Isopropyl., 5-B-Br [illegible], N-Methyl-barbituric Acid; [illegible]," Farmakol. i Toksikol., 5, [illegible], 1942;

"Dynamics of Cardio[illegible] of [illegible] Conv[illegible]," Farmakol. i Toksikol., 5, [illegible] 5, No. 4, 1942.

"On the Pharmacological Activity of [illegible] Digitalis species," Farmatsiya, [illegible], 1942.



PROCESSES AND PROPERTIES INDEX

114

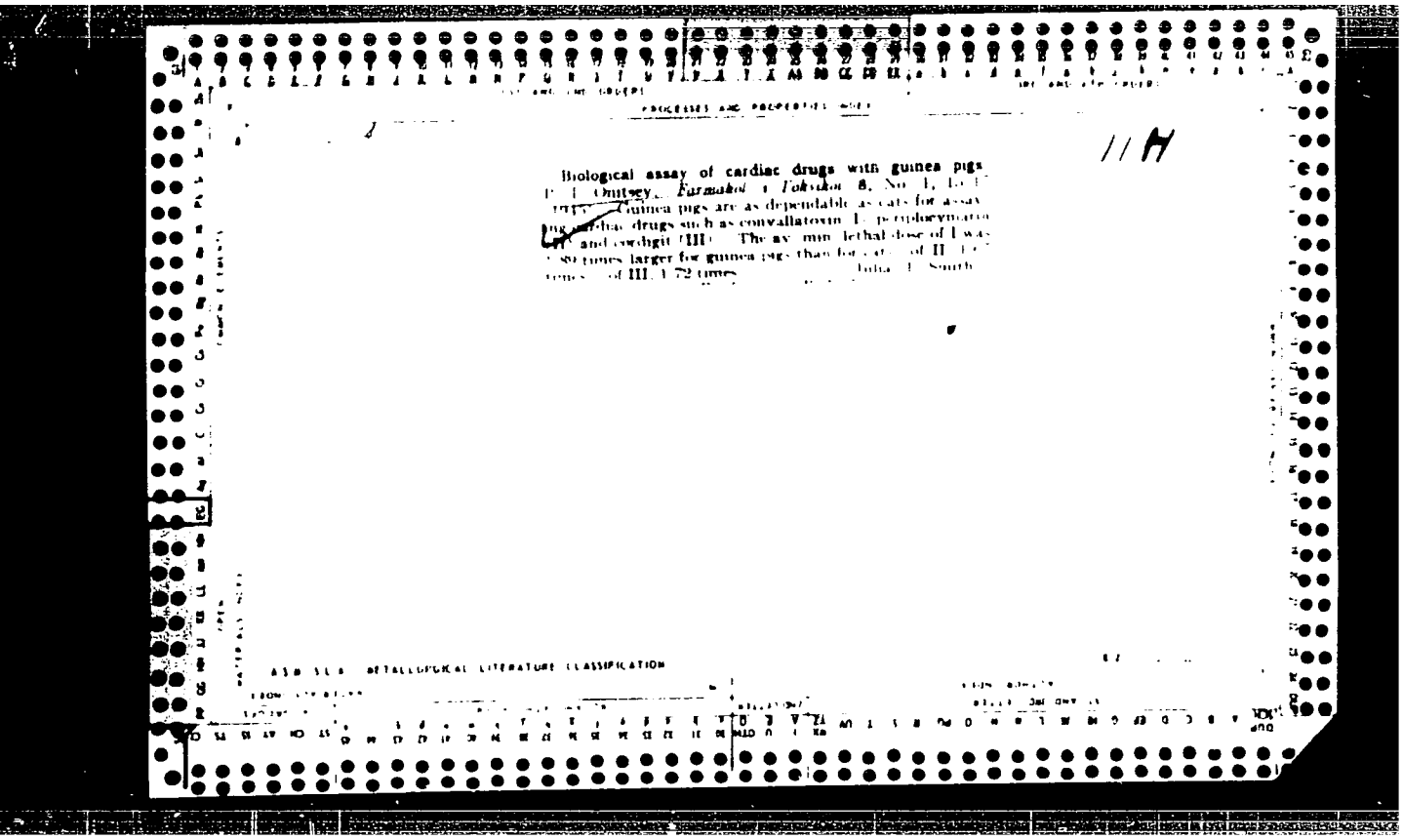
Pharmacological examination of convallatoxin. P. I Unitsev. *Farmakol. i Toksikol.* 6, No. 6, 30-7(1943). Convallatoxin (from *Convallaria majalis*) was assayed for physiol. activity (Hatcher-Magnus and Knaffl-Lenz methods), rate of resorption (Svec, *C.A.* 30, 3077[8]) and cumulative effects (Hatcher and Fränkl-Lendle methods, *C.A.* 30, 6820[6]). The test animals were dogs, cats, rabbits, guinea pigs and frogs. The cardiac effect is typical of the cardiac glycosides, of which convallatoxin has the highest known activity (lethal dose for cats 0.108, for guinea pigs 0.198 mg /kg.). Activity varies with the mode of administration, it is low with enteral dosage and highest with intravenous injection. Enteral resorption is rapid, reaching 19.1% M.L.D. in 1 hr. and a max. of 36.2% in 6 hrs. The Hatcher test for cumulative action showed half the dose eliminated in 1 day and complete elimination in 5 days. The general effect is similar to that of strophanthin, for which convallatoxin can be substituted.

Julian F. Smith

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

Pharmacological action of figwort (Scrophularia nodosa

P. I. Quitsky. *Farmakol. i Toksikol.* 7, No. 4, 51-
3(1944). Figwort contains glucosides and toxic alkaloids.
A 10%. ext. of the whole plant (excepting roots) in 70%
EtOH was toxic to white mice and frogs, depressing the
central nervous system in both. The dose was 0.5-2 cc.
per 20 g. in frogs and 0.1-0.5 cc. per 20 g. in mice, given
subcutaneously. In tests with isolated rabbit ears and
kidneys, with the ext. in dilns. from 1:10 to 2000 p.p.m.
there was always a vasodilator effect with cardiac depres-
sion. At 500 to 20,000 p.p.m. (but not at 100 p.p.m.)
rabbit uterus showed increased contraction, sometimes
with heightened tonus. In cat uterus the tonus was
heightened. At 1000 to 20,000 (but not at 100 to 200)
p.p.m. strips of rabbit intestine showed a drop and then a



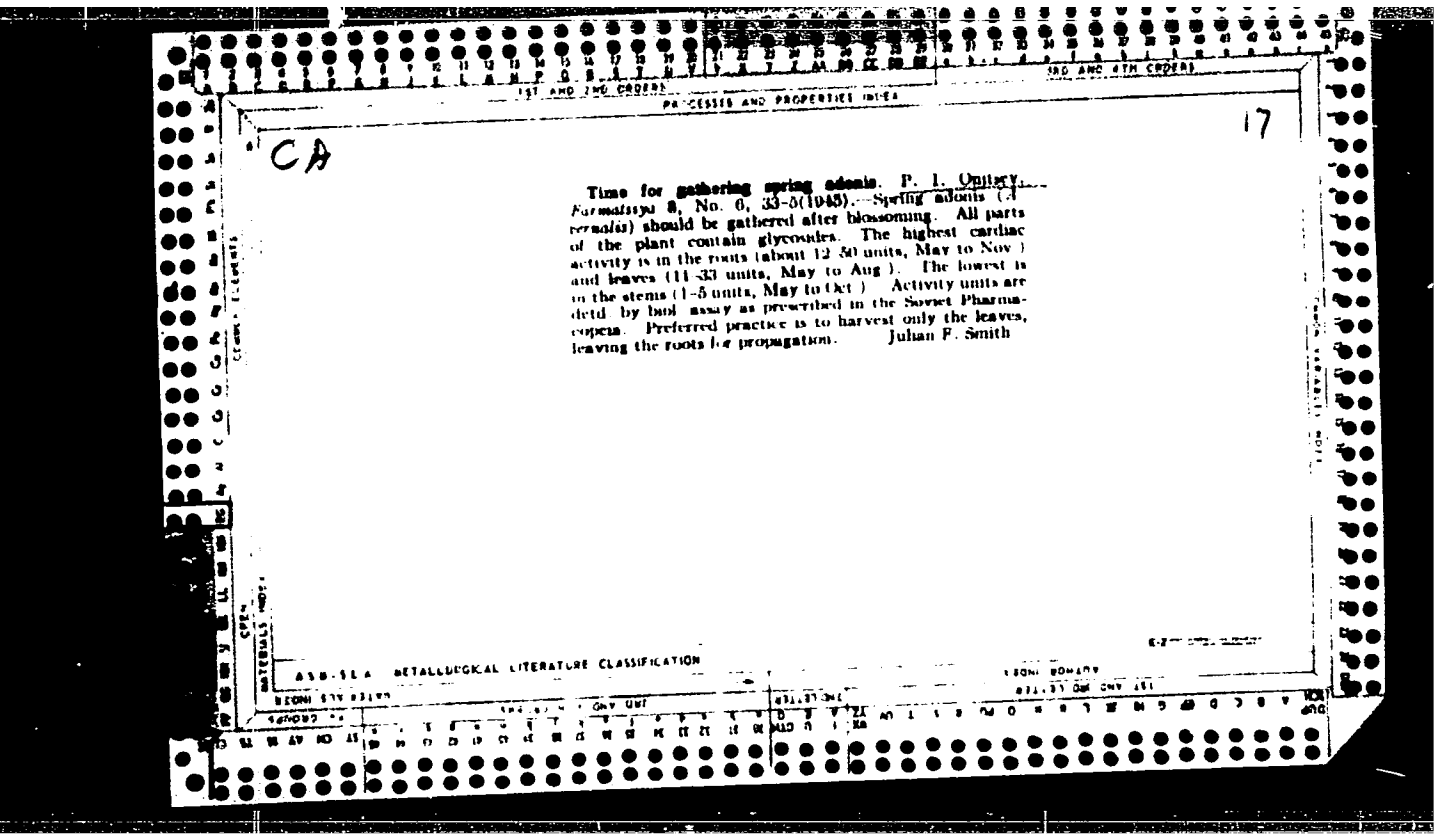
Biological assay of cardiac drugs with guinea pigs
[illegible] Guinea pigs are as dependable as cats for assay
[illegible] and cwdigit (III). The av. min. lethal dose of I was
[illegible] times larger for guinea pigs than for cats; of II [illegible]
[illegible] of III, 1.72 times. [illegible] Smith

ASM SLA METALLURGICAL LITERATURE CLASSIFICATION

11H

Pharmacological study of crystalline coronillin P. I. Ontsev. *Farmakol. i Toksikol.* 8, No. 4, 3-6 (1945).—Coronillin (I) was prepd. from aseed (*Coronilla varia* L.) seeds and tested on isolated frog heart, rabbit intestine, and rabbit uterus in concns. of 0.1-10 p.p.m. In general, I acts like other cardiac glycosides. The lethal dose for cats is 0.22 mg./kg. At 10 p.p.m. it causes systolic stoppage of isolated frog heart. Cryst. I is about [illegible] times as active as amorphous I, [illegible] as strophanthin K. In dogs (dose 0.2 mg./kg. intravenously) blood pressure rises, cardiac rhythm is first sharply slowed, then [illegible] elevated; amplitude first falls off sharply, then rises. [illegible] strips of isolated smooth muscle (rabbit uterus or [illegible]) treated with I at 2 p.p.m. showed heightened tonus and cessation of contraction. Tonus returned to normal when I was washed out. Use of I from Soviet sources as a cardiac glycoside is recommended. Julian F. Smith

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



CA

17

Time for gathering spring adonis. P. I. Ogilvy. *Farmatsiya* 8, No. 6, 33-5(1945).—Spring adonis (*A vernalis*) should be gathered after blossoming. All parts of the plant contain glycosides. The highest cardiac activity is in the roots (about 12-50 units, May to Nov.) and leaves (11-33 units, May to Aug.). The lowest is in the stems (1-5 units, May to Oct.). Activity units are detd. by bird assay as prescribed in the Soviet Pharmacopeia. Preferred practice is to harvest only the leaves, leaving the roots for propagation. Julian F. Smith

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

CA

17

Pharmacological activity of cultivated species of digitalis. P. I. Orlinov. *Farmatsiya* 10, No. 2, 28-30 (1947).—Leaves of *Digitalis lutea* (I), *D. purpurea* (II), and *D. grandiflora* (III) were tested on frogs. In frog-cardiac-activity units, the max. for each variety was I 66.6, II 266.4, III 133.2. After a year of storage the figures were: I 63.2, II 133.2, III 100. Cultivation conditions for the 3 species were identical. Julian F. Smith

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ONITSEV, P.I., dotsent.

Cumulative properties of cardiac glycosides. Sbor.trud.Khar'.vet. inst. 21:172-176 '52. (MLRA 9:12)

1. Kafedra farmakologii Khar'kovskogo veterinarnogo instituta.
(Glycosides)

ONITSEV, P.I., dotsent.

Changes in the electrocardiogram under the effect of convallatoxin. Sbor.trud.Khar'.vet.inst. 21:177-182 '52. (MLRA 9:12)

1. Kafedra farmakologii Khar'kovskogo veterinarnogo instituta. (Electrocardiography) (Convallatoxin)

ONITSEV, P.I.

Collection of Periploca. Aptech. delo, Moskva 2 no.2:51-52 Mar-Apr 1953. (CLML 24:3)

1. Of the Pharmacological Laboratory of Khar'kov Scientific-Research Pharmaceutic Chemistry Institute (Director -- Docent M. A. Angarskaya).

ONITSEV, P.I.

Elimination of convallatoxin. Farm.i toks. 16 no.4:17-19 Jl-Ag '53. (MLRA 7:5)

1. Iz farmakologicheskoy laboratorii (zaveduyushchiy - dotsent P.I. Onitsev) Khar'kovskogo nauchno-issledovatel'skogo khimiko-farmatsevticheskogo instituta. (Glycosides)

ONITSEV, P. I.

USSR

Elimination of periplocimarin. P. I. Onitsev (Sci. Research Chem.-Pharm. Inst., Kharkov). *Farmakol. i Toksikol.* 17, No. 5, 45-8(1954).—Periplocimarin, a new glucoside from silk vine (*Periploca graeca*), was eliminated (after intravenous infusion of a soln., 20 p.p.m., in cats) at rates rising from 0.0138 to 0.0157 mg./kg./hr. as administration rate dropped from 60 to 4.0 ml./hr. These elimination rates correspond to 5–6.2% of the lethal dose; the crit. infusion rate was below 0.359 mg./kg./hr. The elimination rate for convallotoxin is only 1.7–2% of the lethal dose; for digitoxin, only 0.8–1.25%. Julian F. Smith

ONITSEV, P.I., dotsent.

Classification of cardiac glycosides. Sbor. trud. Khar'. vet. inst. 22:188-193 '54. (MLRA 9:12)

1. Kafedra farmakologii Khar'kovskogo veterinarnogo instituta.
(Glycosides--Classification)

OHITSEV, P.I., dotsent.

Biological activity of cardiacs. Sbor. trud. Khar'. vet. inst. 22:194-201 '54. (MLRA 9:12)

1. Kafedra farmakologii Khar'kovskogo veterinarnogo instituta. (Pharmacology)