[illegible] 3344

S/044/62/000/011/035/064

[illegible]

AUTHOR: [illegible]

TITLE: [illegible] multi-dimensional linear systems with variable parameters under nonstationary input actions

PERIODICAL: Referativnyy zhurnal, Matematika, no. 11, 1962, [illegible] abstract [illegible] ("Tr. 1 Mezhdunar. kongressa Mezhdunar. federatsii po avtomat. upr. [illegible] Statist. metody issled., Moscow, AN SSSR, 1961, [illegible] 125 - 135. Discussion, 135 - 142)

TEXT: The input actions - stochastic processes $x_i(t)$ - of the linear system being considered are related to the output processes $y_i(t)$ by the equation

$$y_i(t) = \sum_{k=1} \int g_{ik}(t, \tau)\, x_k(\tau)\, d\tau .$$

The author considers the problem of selecting a matrix $\| g_{ik} \|$ such that the quantities $M = \overline{(z_i - y_i)^2}$ be minimal for a given t, where $z_i(t)$ is a given [illegible]

Card 1/2

Optimizing [illegible] linear [illegible] with [illegible]

chastic process, [illegible] the mean value. It is shown that [illegible] functions K_{lk} are the solution of the system of integral equations

$$\varphi_{k}(t, \tau) = \sum \int K_{l}(t, \sigma)\, \psi_{k}(\tau, \sigma)\, d\sigma,$$

where

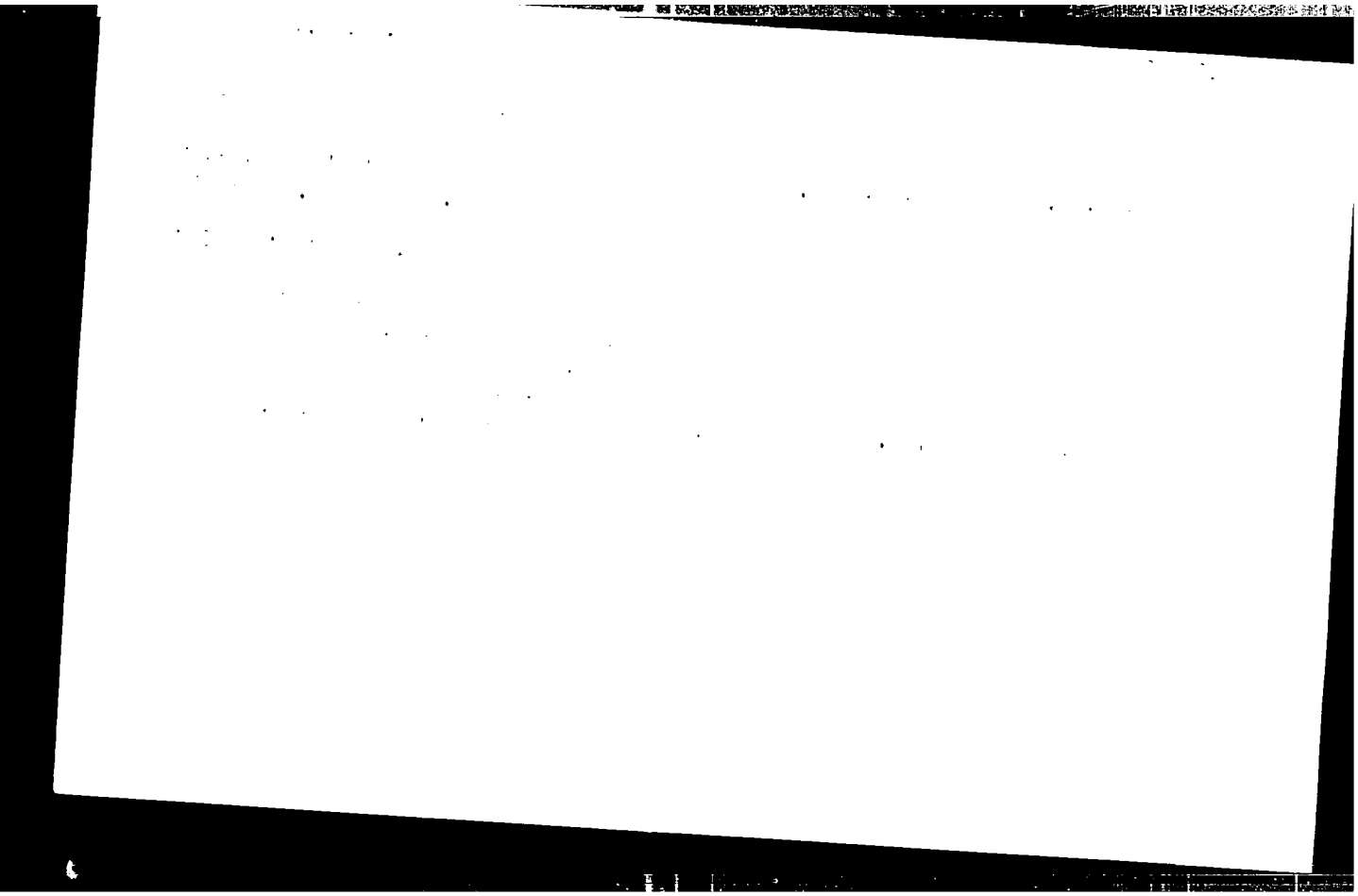
$\varphi_{lk}(t, \tau)$ [illegible] τ [illegible] ψ [illegible] $\tau) =$ [illegible] τ,

The case [illegible] tial system [illegible] in the presence of noise. It is demonstrated that the minimum mean square filtering error tends to zero as [illegible] $\rightarrow$ [illegible] the frequency band of additive noise is infinite. Discussion. Participants [illegible] the discussion [illegible] other methods of solving the indicated problem and [illegible] pare them with those here considered.

V.P. Yar[illegible]

[Abstracter's note: [illegible] translation]

Card 2/2



PITETSKIY, Yu.N.

Ultrasonic testing of asphalt concretes. Avt.dor. 27 no.6:5-6 Je '64. (MIRA 18:4)

PITETSKIY, Yuriy Nikolayevich; ZUBKOVA, M.S., red.; KONONOVA, V.S., red.izd-va; GORYACHKINA, K.A., tekhn. red.

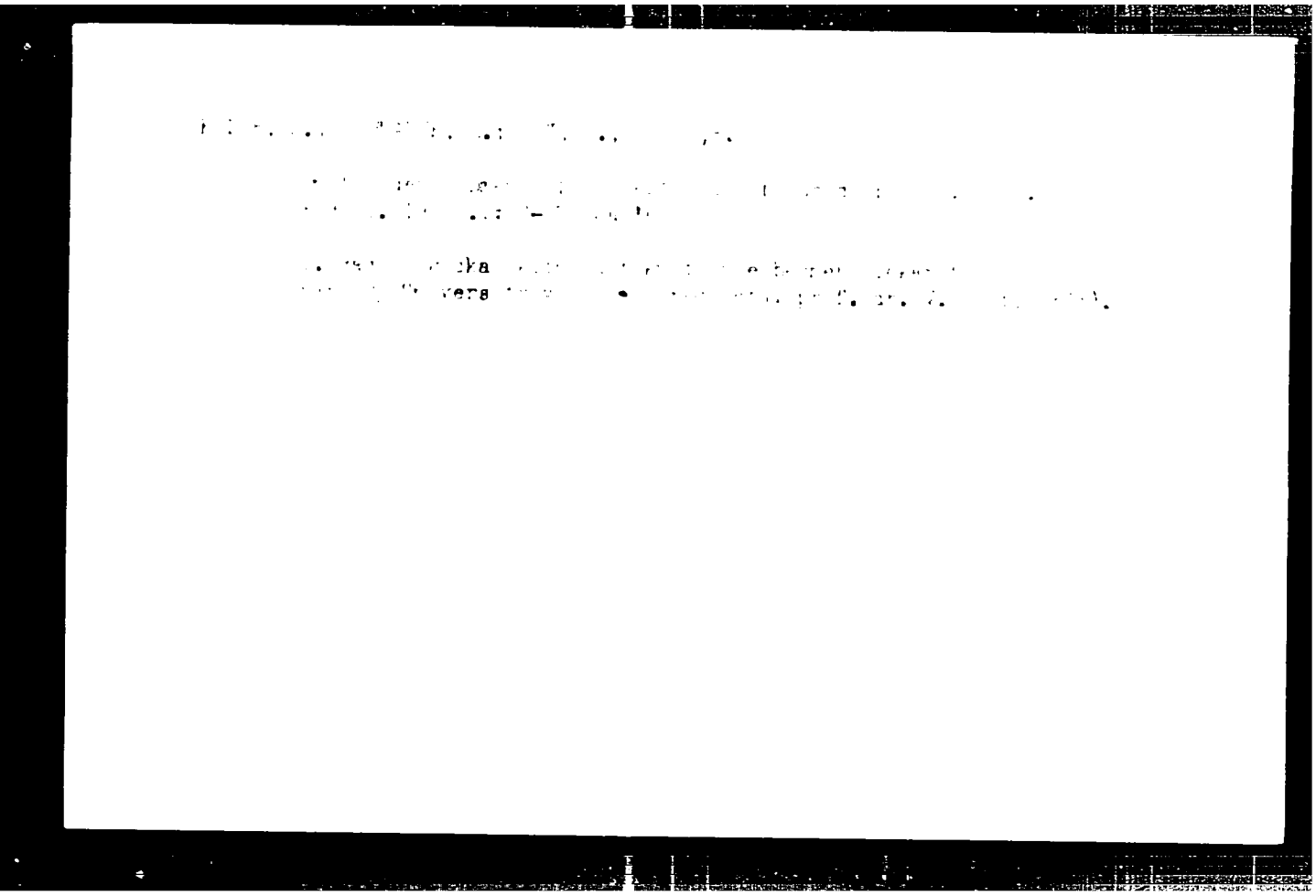
[Manual for workers laying concrete pavements] Pamiatka rabochemu po ukhodu za betonnym pokrytiem. Moskva, Avtotransizdat, 1963. 26 p. (MIRA 17:3)

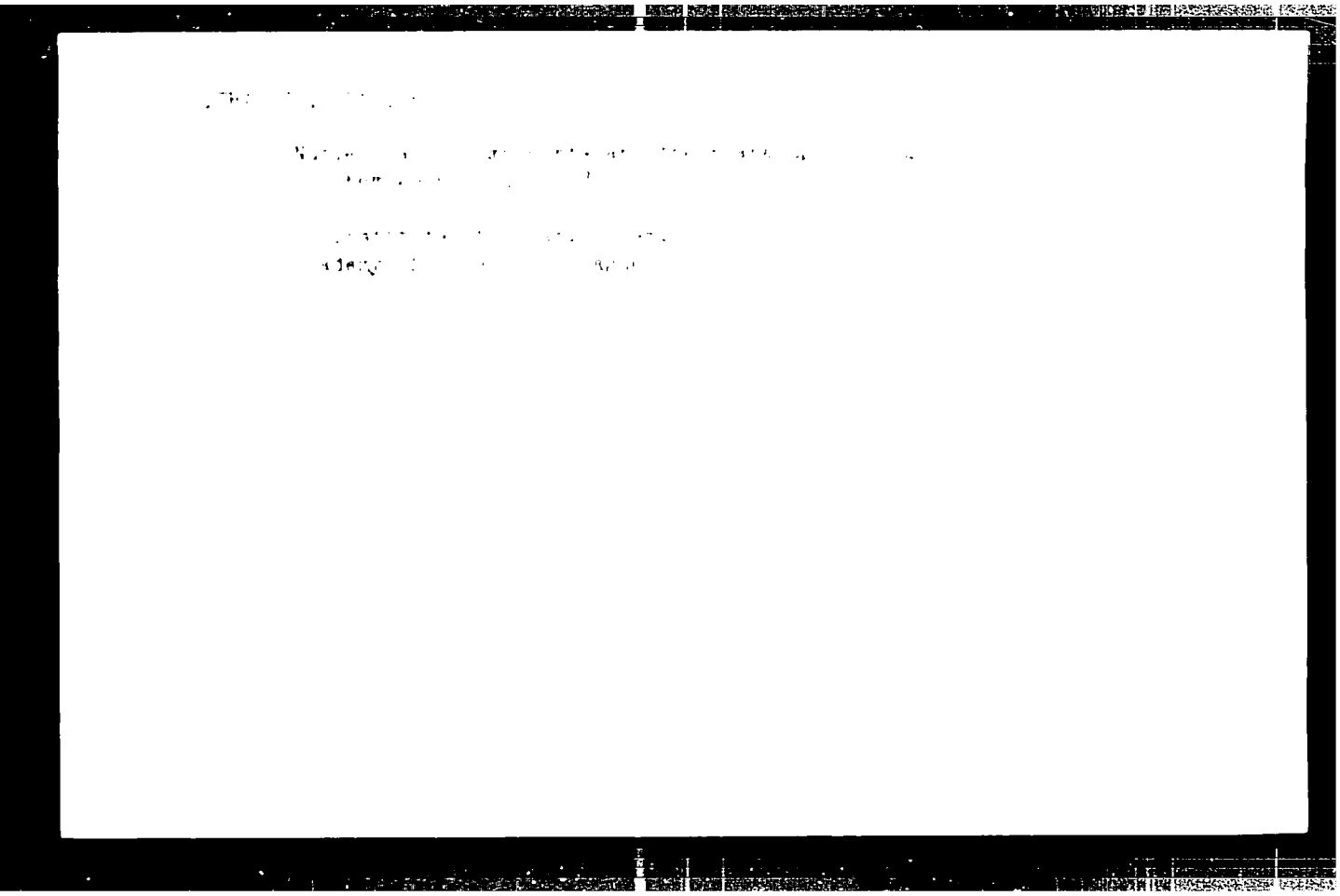
PIT'YA, I. [illegible]; [illegible]ENKO, [illegible] N.; KHARCHENKO, [illegible]

Condensation of aldehydes and ketones. Part [illegible] [illegible] -H-2,3-cyclohexanobicyclo [3,3,1]-nonan-[illegible]-ol-9-[illegible]. Zhur. ob. Khim. 34 no.[illegible] [illegible]36-1939 [illegible]

[illegible]

[illegible] [illegible] Akademiya nauk, Institut [illegible] [illegible] i [illegible] [illegible] [illegible]; [illegible] [illegible] universitet [illegible] [illegible] [illegible] [illegible] [illegible] tekhnicheskiy institut.





CZ/8-52(82)-10-16/39

AUTHORS: Pitha, J. and Ernest, I.

TITLE: Experiments in the Syntheses of alloLupinane. VI. (Syntheticke pokusy v rade allo-lupinanove.VI) Catalytic Hydrogenation of γ-(2-Pyridyl) Ketones. (Katalyticka hydogenace γ-(2-pyridyl) ketonu)

PERIODICAL: Chemicke Listy, 1958, Vol.52(82), Nr 10, pp 1937 - 1940 (Czechoslovakia)

ABSTRACT: The authors investigated the possibility of hydrogenation-cyclisation of γ-(2-pyridyl)ketones and of the keto acid. During the hydrogenation of 5-(2'-pyridyl)-pentanon-0(2) in diluted HCl on an Adam's catalyst the diastomer 4-methylquinolicidine was obtained in high yields; its picrate had a melting point of 193 - 195°C. 5-(2'-pyridyl) pentanol-(1)-one-(2) was also subjected to stereo-specific reduction cyclisation. This compound was synthesised by reducing ethyl δ-(2-pyridyl)-α,α,-dihydroxy-valerate with $LiAlH_4$ and by hydrolising the formed hydroxyketal. The crystalline 4-hydroxymethylquinolicidine was obtained in 70% yields by hydrogenation of the hydroxyketone; the melting point was 47.5 - 49°C. Stereo specific reduction cyclisation was also observed during the hydrogenation of δ-(2-pyridyl)-α-ketovaleric acid. A small quantity of quinolicidine-4-carboxylic

Card 1/2

Experiments in the Syntheses of allolupinane. VI. Catalytic hydrogenation of β-2-Pyridyl) Ketones

32/59-52(82)-10-16/59

acid was isolated in the form of its ethyl ester. A cis configuration of the hydrogen on the C(4) and C(10) carbons was ascribed to the quinolicidine derivatives substituted on the C(4) carbon by correlating the observations made during these experiments and previous literature data. There are 14 References: 5 Czech, 8 English and 1 German.

ASSOCIATION: Laboratoř heterocyklických sloučenin, Československá akademie věd a Katedra organické chemie, Vysoká škola chemicko-technologická, Praha (Laboratory for Heterocyclic Compounds, Czechoslovak Academy of Sciences, and Department for Organic Chemistry, Institute for Chemical Technology, Prague)

SUBMITTED: 10th January, 1958

Card 2/2

JIRASEK,A.; PITHA,J.

Experimental pulmonry embolism. Acta Univ. Carol. [med.](Praha) 10:suppl. 17:25-30 '63

1. Hlavuv I. patologickoanatomicky ustav fakulty vseobecneho lekarstvi University Karlovy v Praze; prednosta: prof. dr. B.Bednar, DrSc.

PITHA, J.; HERMANEK, S.; VIT, J.

Reduction of carboxylic acid and its derivatives with sodium-aluminum hydride. Coll Cz chem 25 no.3:736-742 Mr '60. (EEAI 9:12)

1. Laboratorium fur heterocyclische Verbindungen, Prag, Forschungsinstitut fur Heilpfalnzen, Prag und Technische Hoschschule fur Chemie, Prag.

(Carboxylic acids)
(Aluminum soium hydride)

PITHA, J.; HORAK, M.

Spectroscopic study of the intramolecular interaction of an aliphatic hydroxyl group and a benzene nucleus. Coll Cz Chem 25 no.6:1586-1590 Je '60. (EEAI 10:9)

1. Laboratory of Heterocyclic Compounds and Department of Physical Chemistry, Institute of Chemistry, Czechoslovak Academy of Science, Prague.

(Spectrum analysis) (Aliphatic compounds)
(Hydroxyl group) (Benzene)

PITHA, J.; HORAK, M.; KOVAR, J.; BLAHA, K.

Configuration of nitrogens containing compounds. XI. The effect of configuration on the infrared spectra of some aminohydroxytetralins. Coll Cz Chem 25 no.11:2733-2745 N '60. (EEAI 10:6)

1. Laboratory of Heterocyclic compounds and Institute of Chemistry, Czechoslovak Academy of Science, Prague.
(Nitrogen) (Spectrum, Infrared) (Amino group)
(Hydroxy compounds) (Tetrahydronaphthalene)

HERMANSKY, F.; ENGLIS, M.; PITHA, J.; POSPÍŠILOVÁ, V.

Atypical reticulomyelosis following the administration of calf DNA to newborn mice C57Bl. Neoplasma 8 no.5:463-470 '61.

1. Research Laboratory for Hematology and Liver Diseases, 1st Medical Clinic, 1st Institute of Pathological Anatomy, Charles University, Prague, Czechoslovakia.
(DESOXYRIBONUCLEIC ACID toxicol) (LEUKEMIA exper)

PITHA, J.; JONAS, J.; KOVAR, J.; BLAHA, K.

Configuration of nitrogen-containing compounds. XIII. Preparation and tautomerism of aminooxazoline. Coll Cz Chem 26 no.3:834-846 Mr '61. (EEAI 10:9)

1. Jetzige Adresse: Institut fur organische Chemie und Biochemie, Tschecloslowakische Akademie der Wissenschaften, Prag (for Pitha). 2. Laboratorium fur heterocyclische Verbindungen und Institut fur organische Chemie und Biochemie, Tschechoslovakische Akademie der Wissenschaften (for Jonas, Kovar and Blaha)

(Aminooxazoline) (Nitrogen)

PITHA, J.; PLESEK, J.; HORAK, M.

Condensation reaction of aldols. Part 5: Configuration of derivates of 2,3-cyclohexano-(1,3,3)-bicyclononan-2-OL-9-ONS. Coll Cz Chem 26 no.4: 1209-1212 Ap '61.

1. Institut fur organische Chemie und Biochemie, Tschechoslowakische Akademie der Wissenschaften, Prag. 2. Jetzige adresse: Fa. Dental, Prag (for Plesek)

(Adols)

PITHA, J

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation: Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague

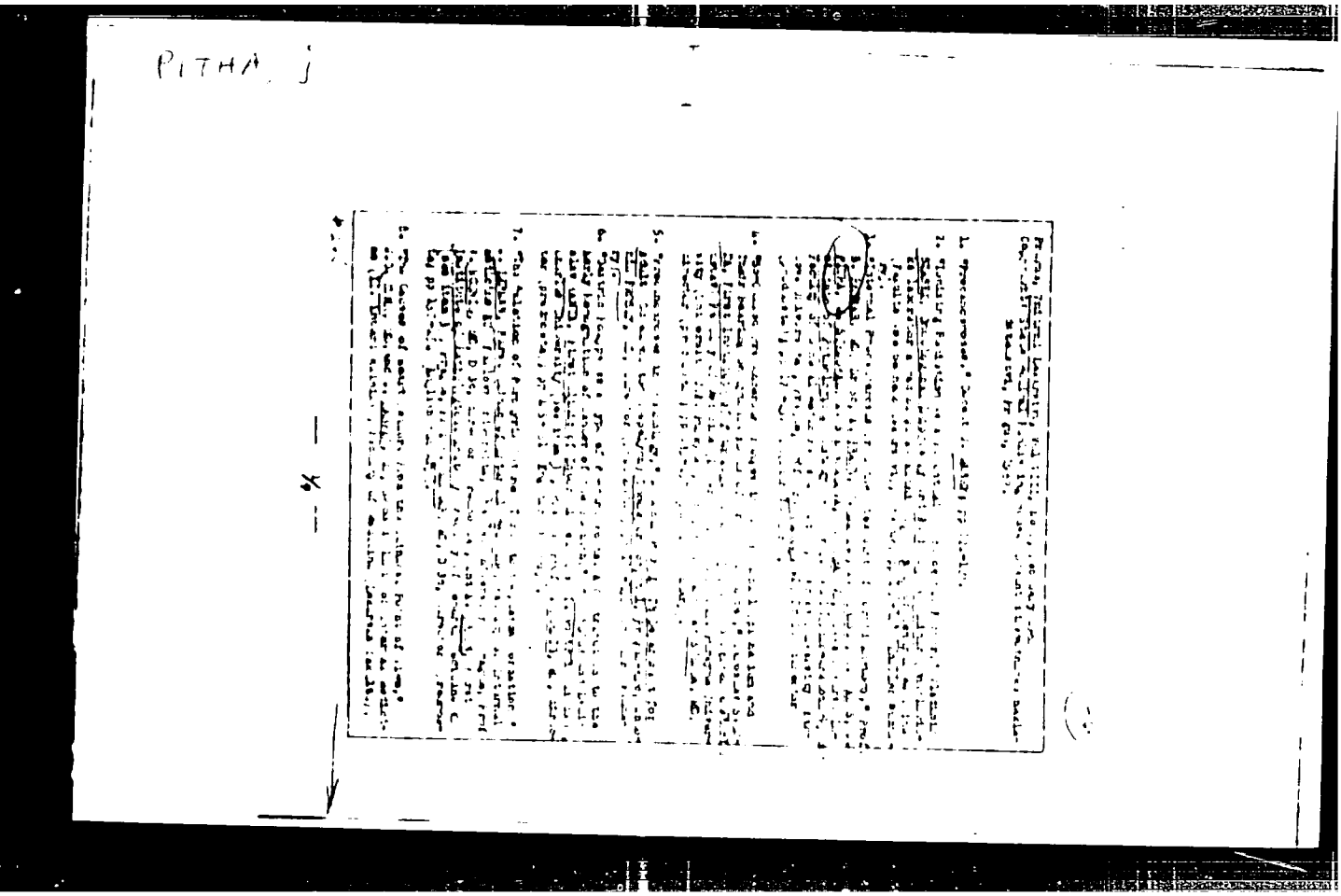
Source: Prague, Collection of Czechoslovak Chemical Communications, Vol 26, No 11, November 1961, pp 2891-2896

Data: "Spectroscopic Study of the Hydrogen Bond in Substituted 2-Nitrophenols."

Authors:

HORAK, M
SMOLIKOVA, J
PITHA, J

PITHA j



LUKES, R. [deceased]; PITHA, J., KOTAR, J.; PLAHA, K.

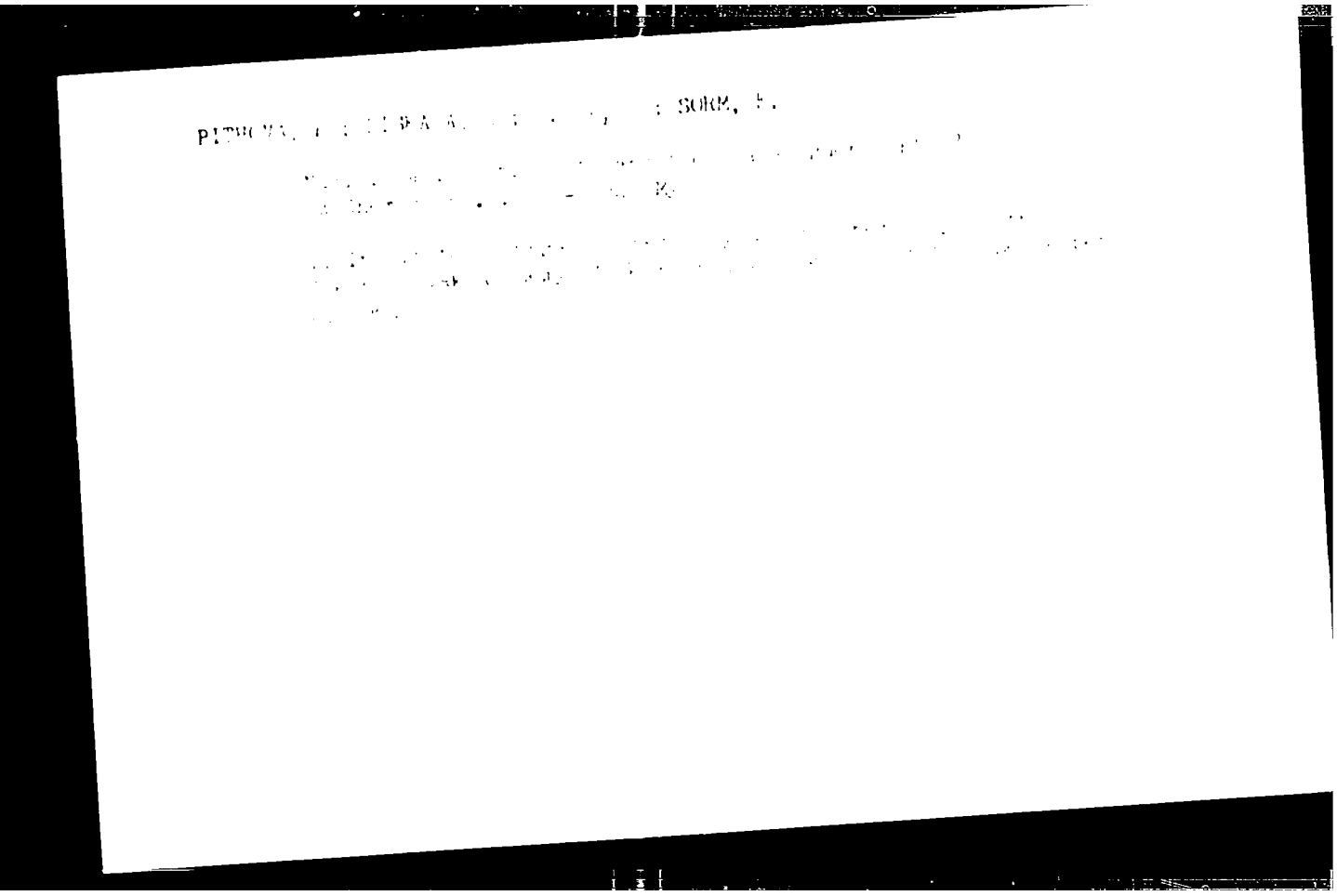
Configuration of nitrogen compounds. Part 14: On the kinetics of solvolysis of condensation products of vicinal aminohydroxytetralins with p-nitrobenzaldehydes. Col. Cz Chem 27 no.1:328-336 F '62.

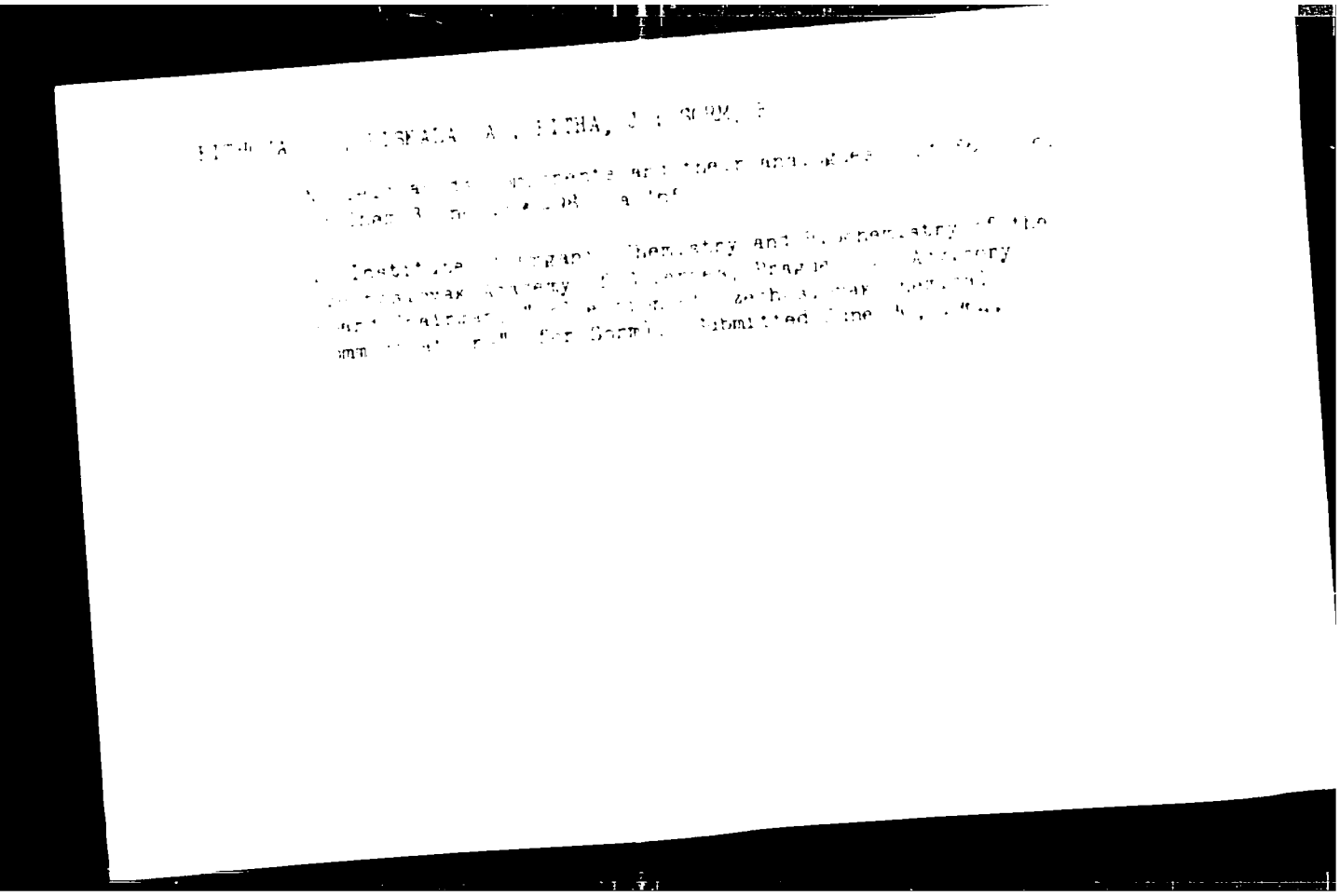
1. Laboratorium fur heterocyclische Verbindungen, Tschechoslowakische Akademie der Wissenschaften, Prag. 2. Jetzige Adresse Institut fur organische Chemie und Biochemie, Tschechoslowakische Akademie der Wissenschaften, Prag (for Pitha and Plaha).

SETKA, J.; ANDRYSEK, O.; PITHA, J.; SUP.M.

Functional examination of diffuse liver lesions with gammagraphy. Acta univ. Carol. [med] (Praha): Suppl. 18: 53-57 '64.

1. II. interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. F. Herles); Biofysikalni ustav fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: doc. dr. Z. Dienstbier); I. patologicko-anatomicky ustav fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. B. Bednar).





GUT, J.; JONAS, J.; [illegible], J.

Nucleic acid components and their analogues. [illegible]
Cz Chem 29 no. [illegible]:13[illegible]-14[illegible] Je [illegible].

1. Institute of Organic Chemistry and Biochemistry, [illegible]
Academy of Sciences, Prague.

ALDRYSEK,O.; SETKA,J.; PITHA,J.; S P.M.; ALDRYSKOVA,J.

The value of garmagraphy in diffuse lesions of the liver.
Rev. czech. med. 10 no.1:8-16 '64.

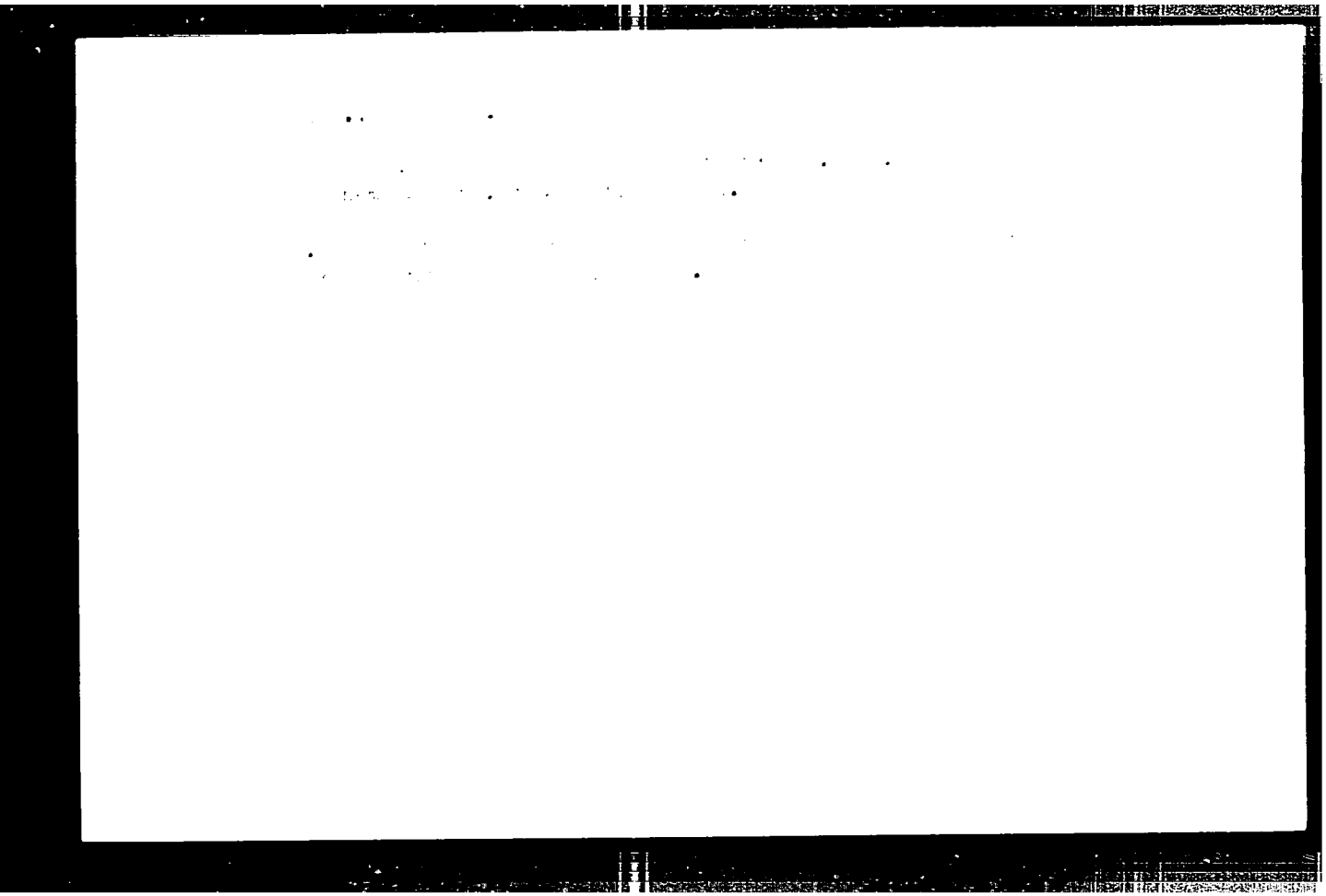
1. Biophysical Institute, Medical Faculty, Charles University, Prague (director: doc. Z Dienstbier, M.D., C.Sc.); Second Medical Clinic, Charles University, Prague (director: prof. F.Herles, M.D., Dr.Sc.) and First Institute of Pathology, Charles University, Prague (director: prof. B.Bednar, M.D., Dr.Sc.).

*

PITHA, J.

"Chemical applications of group theory" by F.A. Cotton. Reviewed by J.Pitha. Chem listy 58 no. 3:3[illegible] Mr '64.

"Spectrometric identification of organic compounds" by R.M. Silverstein, G. Bassler. Reviewed by J.Pitha. Ibid.:3[illegible]



PITHA, J.

Examination of tautomerism of citrazinic acid. Coll Cz Chem 28 no.6:1408-1418 Je '63.

1. Institut fur organische Chemie und Biochemie, Tschechoslovakische Akademie der Wissenschaften, Prag.

FAJKOS, J.; JOSKA, J.; PITHA, J.; SORM, F.; LABLER, L.

On steroids. Pts. Coll Cz Chem 28 no.9:2337-2355 S '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences. Prague.

PITHA, J.; CHLADEK, S.; SMRT, J.

Intramolecular hydrogen bonds in derivatives of nucleosides.
Coll Cz Chem 28 no.6:1622-1625 Je '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

PITHA, J.; BERANEK, J.

Nucleic acid components and their analogues. Pt. 32.
Coll Cz Chem 28 no.6:1507-1515 Je '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

PITHA, J.; KUTHAN, J.

Examination of the tautomerism of 2,6-dihydroxydinicotinic acid ester by infrared spectroscopy. Coll Cz Chem 28 no.6:1625-1628 Je '63.

1. Institut fur organische Chemie und Biochemie, Tschechoslovakische Akademie der Wissenschaften und Institut fur organische Chemie, Technische Hochschule fur Chemie, Prag.

JOSKA, J.; FAJKOS, J.; PITHA, J.

On steroids. Pts. 82-83. Coll Cz Chem 28 no.10:2605-2617 '63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

CZECHOSLOVAKIA

FAJKOS, J; JOSKA, J; POTRUA, J; SORM, F.

Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 9, 196-, pp [illegible]

"On Steroids. LXXX. Intramolecular Hydrogen Bonding in 2,6-Disubstituted -Beta-B-Norsteroids: Conformation of Ring A."

[illegible]A, [illegible]

Institute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences, Prague

Prague, Collection of Czechoslovak Chemical Communications, No [illegible], [illegible], pp [illegible]

"Study on the Tautomerism of [illegible] Acid."

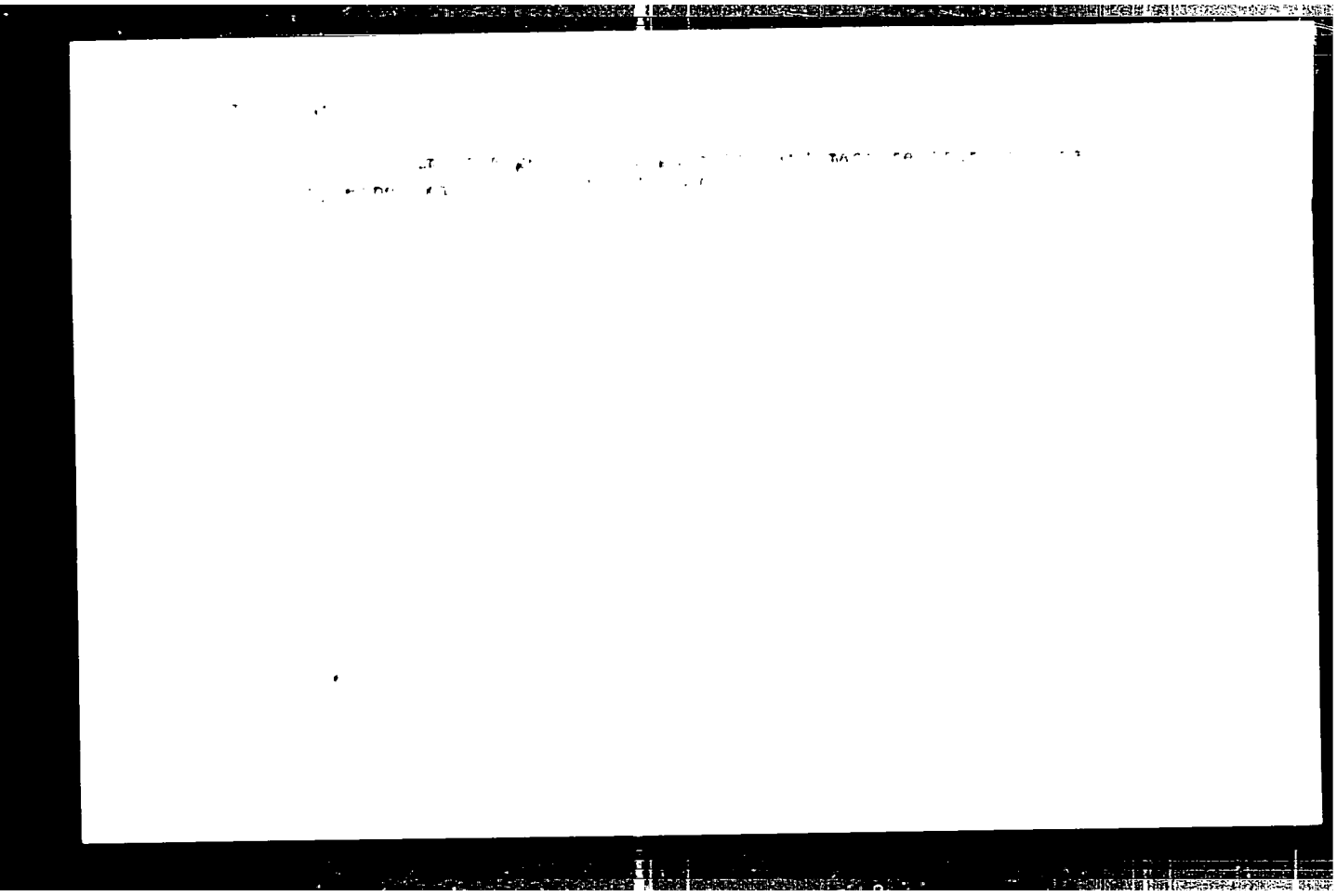
PITHA, J.

"Absorption spectroscopy" by R.P. Bauman. Reviewed by J. Pitha.
Chem listy 57 no.1:84-85 Ja '63

BEDNAR, B.; BRAUN, A.; DOBIAS, J.; JIRASEK, A.; KALUS, M.; PITHA, J.; STEJSKAL, J.; STEJSKALOVA, A.; URBANOVA, D.

"Internal" precancerosis from the point of view of pathology. Rev. czech. med. 8 no.3:179-185 '62.

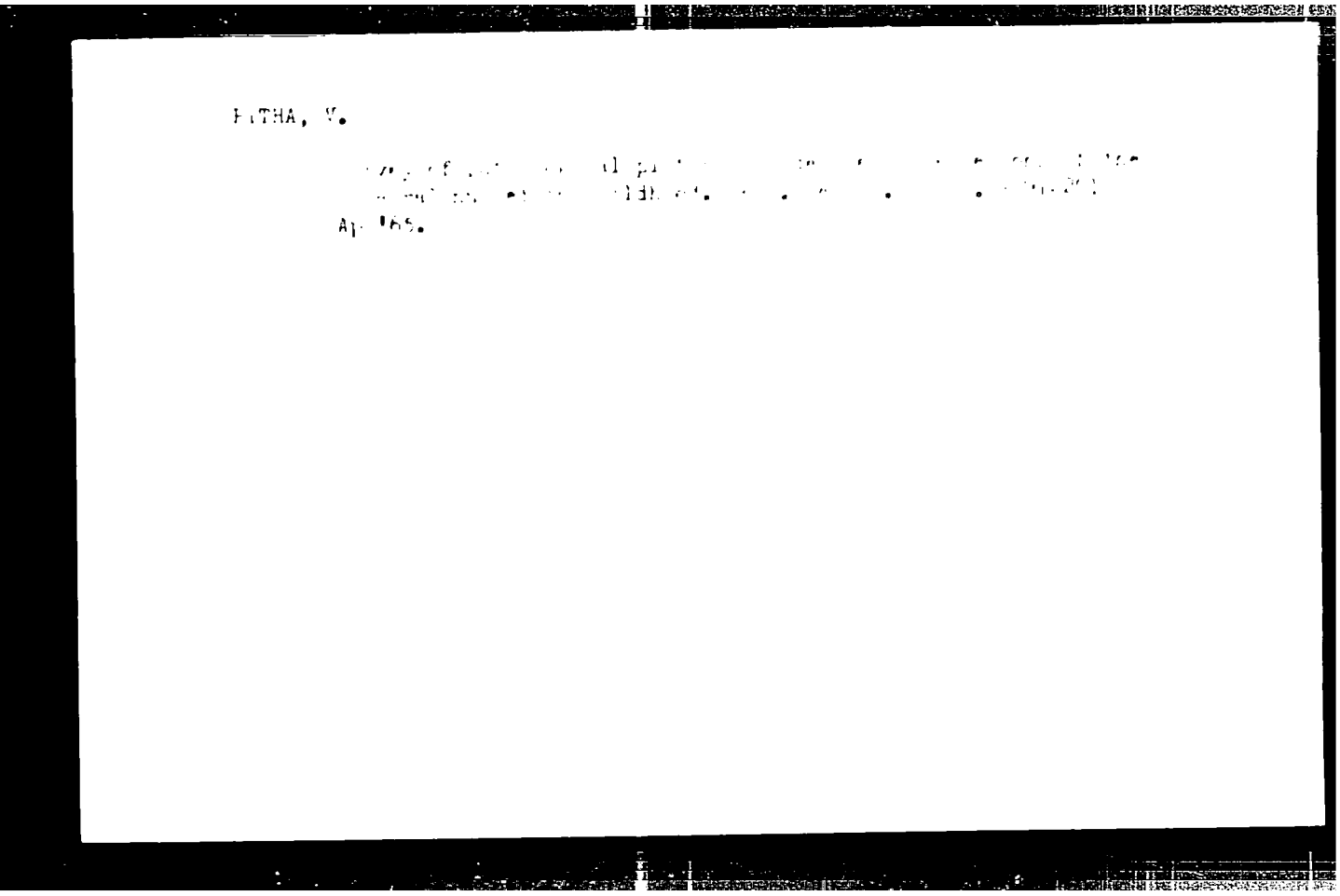
1. The Hlava First Pathological Institute, Medical Faculty, Charles University, Prague; Director: Prof. B. Bednar, M.D., D.Sc.
(NEOPLASMS)



PITHA, Vaclav; MENSIKOVA, Zdenka; POLAK, Otakar; MALIK, Zdenek; LEDINSKA, Nada; tech. spoluprac.: SKLIVANOVA, S.; KADLECKOVA, M.

Electrical responses of cortical and deep cerebral structures to the administration of LSD 25 in cats. Sborn. ved. prac. lek. fak. Karlov. univ. (Hradec Kral) 4 no.4:469-480 '60.

1. Neurologicka klinika v Plzni; prednosta prof. MUDr. V. Pitha.
(CEREBRAL CORTEX pharmacol) (BRAIN pharmacol)
(LYSERGIC ACID DIETHYLAMIDE pharmacol)



FATHA, V.

MENSIKOVA, Zdenka; POLAK, Otakar; PITHA, Vaclav; MASIN, Zdenek; L..., Hana; technicka spoluprace: KALICKOVA, H.; SKRIVANOVA, S.

Electrical activity of cortical and deep cerebral structures and its response to different stimuli, tryptamine and other drugs in cats. Sborn. ved. prace. lek. fak. Karlov. univ. (Hrad Kral) 4 no.4:4..-467 '61.

1. Neurologicka klinika LFKU v Plzni; prednosta prof. MUDr. V. Pitha.
(CEREBRAL CORTEX physiol) (BRAIN physiol)
(STRYCHNINE pharmacol)

PITHA,V.; POLAK,O.

Pharmacological Pa[illegible]'s syndrome. Activ. nerv. sup. 6 no.1: 88 '64.

PITHA, V.; LEDINSKY, Q.

Our experiences in diagnosis and therapy of brain abscess. Cesk. neur. 24 no 5:312-317 S '61.

1. Neurologicka klinika University Karlovy v Plzni, prednosta prof. dr. V. Pitha I chirurgicka klinika University Karlovy v Plzni, prednosta doc. dr. K. Domansky.

(BRAIN ABSCESS)

NIEDERLE, B., Doc., dr., (Praha-Motol); PITHA, V., prof. Dr., (Plzen)

The fate of brain abscesses treated in two children at the beginning of the penicillin area.

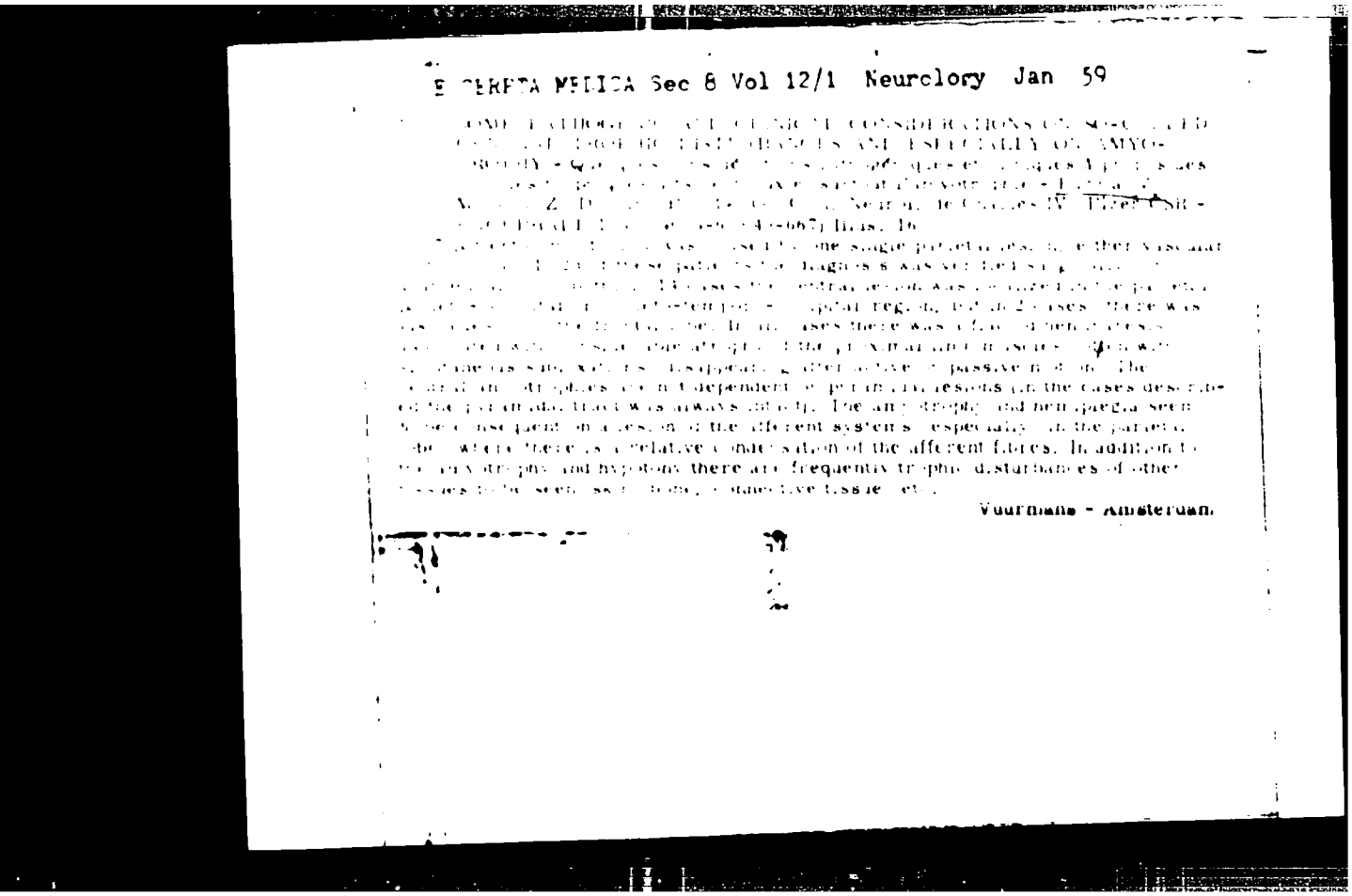
(BRAIN, abscess
in child. ther., penicillin (Cs))
(PENICILLIN, ther. use
brain abscess in child (Cs))

PITHA, V.; POLAK, O.

Circumscribed encephalitis. Cesk. neur. 24 no.2:73-78 Mr '61.

1. Neurologicka klinika v Plzni, prednosta prof. dr. V. Pitha.

(ENCEPHALITIS)



E CERPTA MEDICA Sec 8 Vol 12/1 Neurology Jan 59

Vuurmans - Amsterdam

PITHA, V.; MASIN, Z.; POLAK, O.

Effect of serpasil on spasticity under kymographic control. Cesk. neur. 22 no.1:30-38 Feb 59.

1. Neurologicka klinika K. U. lekarske fakulty v Plzni, prednosta prof. Dr. V. Pitha.

(RESERPINE, ther. use,
multiple sclerosis, eff. on spastic cond., kymography (Cz))
(MULTIPLE SCLEROSIS, compl.
spastic cond., eff. of reserpine, kymography (Cz))
(KYMOGRAPHY,
in spastic reactions to reserpine in multiple sclerosis (Cz))

LEDINSKY, O.; PITHA, V.

Bilateral encephalomalacia of the occipital lobe and its clinical course. Cesk. neur. 22 no.2:123-128 Mar 59.

1. Neurochirurgicke oddeleni I. chirurgicke kliniky, prednosta doc. Dr. K. Domansky Neurologicka klinika, prednosta prof. Dr. V. Pitha, lekarske fakulty KU. v Plzni.

(OCCIPITAL LOBE, dis.
encephalomalacia, case report (Cz))

POLAK, O.; PITHA, V.

Pathological states related to convulsions and their relation to epilepsy. Cas. lek. cesk. 98 no.6:161-170 6 Feb 59.

1. Neurologicka klinika lekarske fakulty KU v Plzni, prednosta prof. dr. V. Pitha. O. P., Plzen, neurologicka klinika.

(CONVULSIONS, pathol.
(Cz))
(EPILEPSY, pathol.
(Cz))

PITHA, V.; MENSIKOVA, Z.; POLAK, O.; LEDINSKA, N.; MASIN, Z.

Electrical activity of the cortical and deep cerebral structures in cats and its variations under the influence of afferent stimulations by strychnine and other pharmaca. Cesk. fysiol. 8 no.5: 427-428 S '59

1. Neurologicka klinika Lek. fak. KU, pobocky v Plzni.
(BRAIN physiol.)
(STRYCHNINE pharmacol.)
(ELECTROENCEPHALOGRAPHY, pharmacol.)

PITHA, V.; POLAK, O.

Paroxysmal speech disorders. Cas.lek.cesk 100 no.26:810-815 30 Je '61.

1. Neurologicka kliniku KU v Plzni, prednosta prof. dr. V. Pitha.

(SPEECH DISORDERS diag) (ELECTROENCEPHALOGRAPHY)

L 12839-66

ACC NR: AP6005708 SOURCE CODE: CZ/0082/65/000/003/0191/0201

AUTHOR: Pitha, V.

ORG: VUPs, Prague-Bohnice

TITLE: Survey of pathological clinical pictures due to degenerative lesions of cerebral nuclei during childhood

SOURCE: Ceskoslovenska neurologie, no. 3, 1965, 191-201

TOPIC TAGS: pathology, clinical medicine, histology, biochemistry, genetics, brain, encephalology

ABSTRACT: Study of degenerative diseases, and of cerebral nuclei for diagnostical purposes is discussed. Clinical patterns and their relationship to clinical data are discussed. Importance of histochemical and biochemical examination, and of the study of the chromosome factor are discussed. Importance of classification of degenerative diseases is described. Orig. art. has: 3 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: none

HW

Card 1/1

PITHART, J.

"Increasing the degree of mechanization in artificial drying of wilted forage." p. 106.

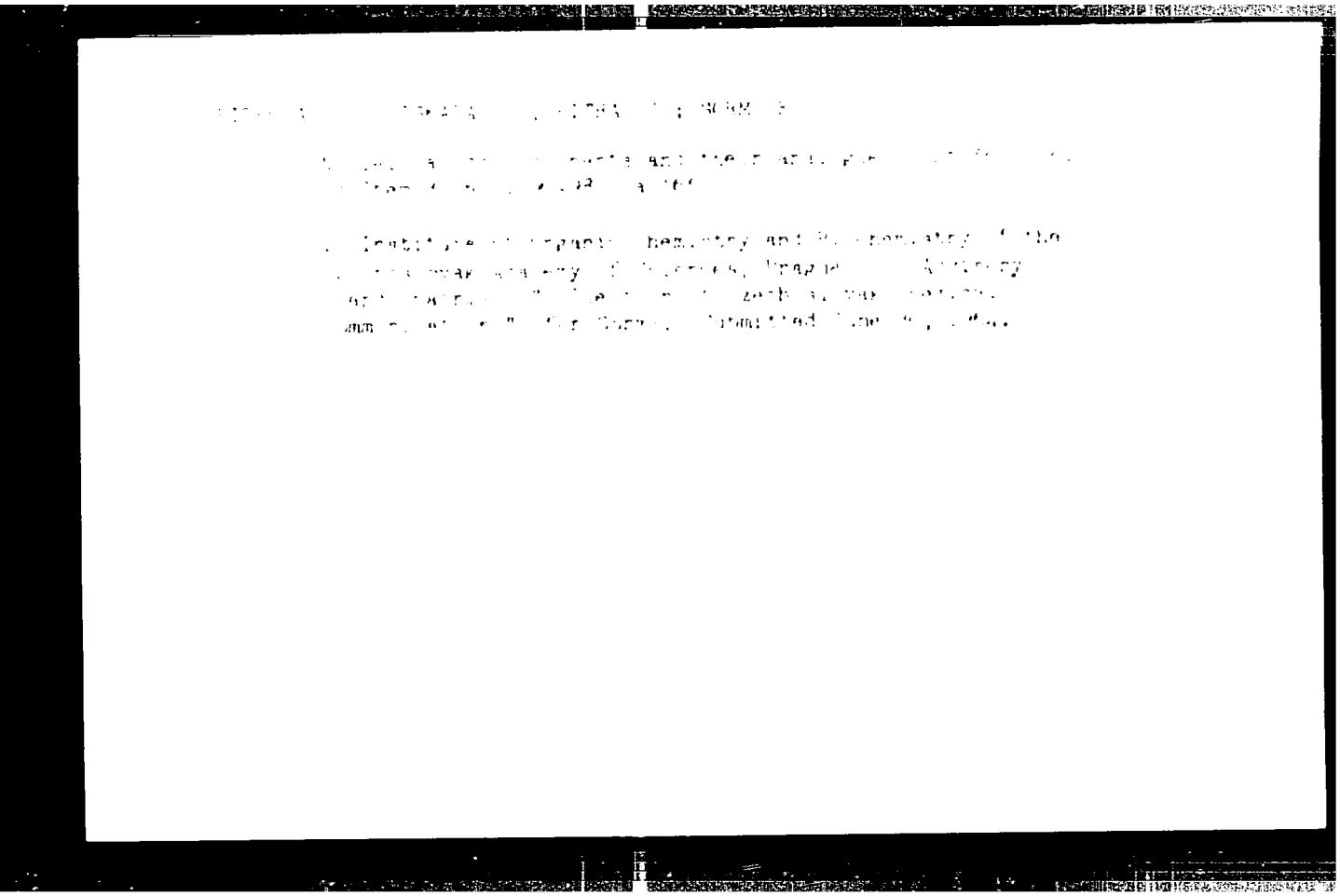
MECHANISACE ZEMEDELSTVI. (MINISTERSTVO ZEMEDELSTVI A LESNIHO HOSPODARSTVI). Praha, Czechoslovakia, Vol. 9, no. 5, May 1959.

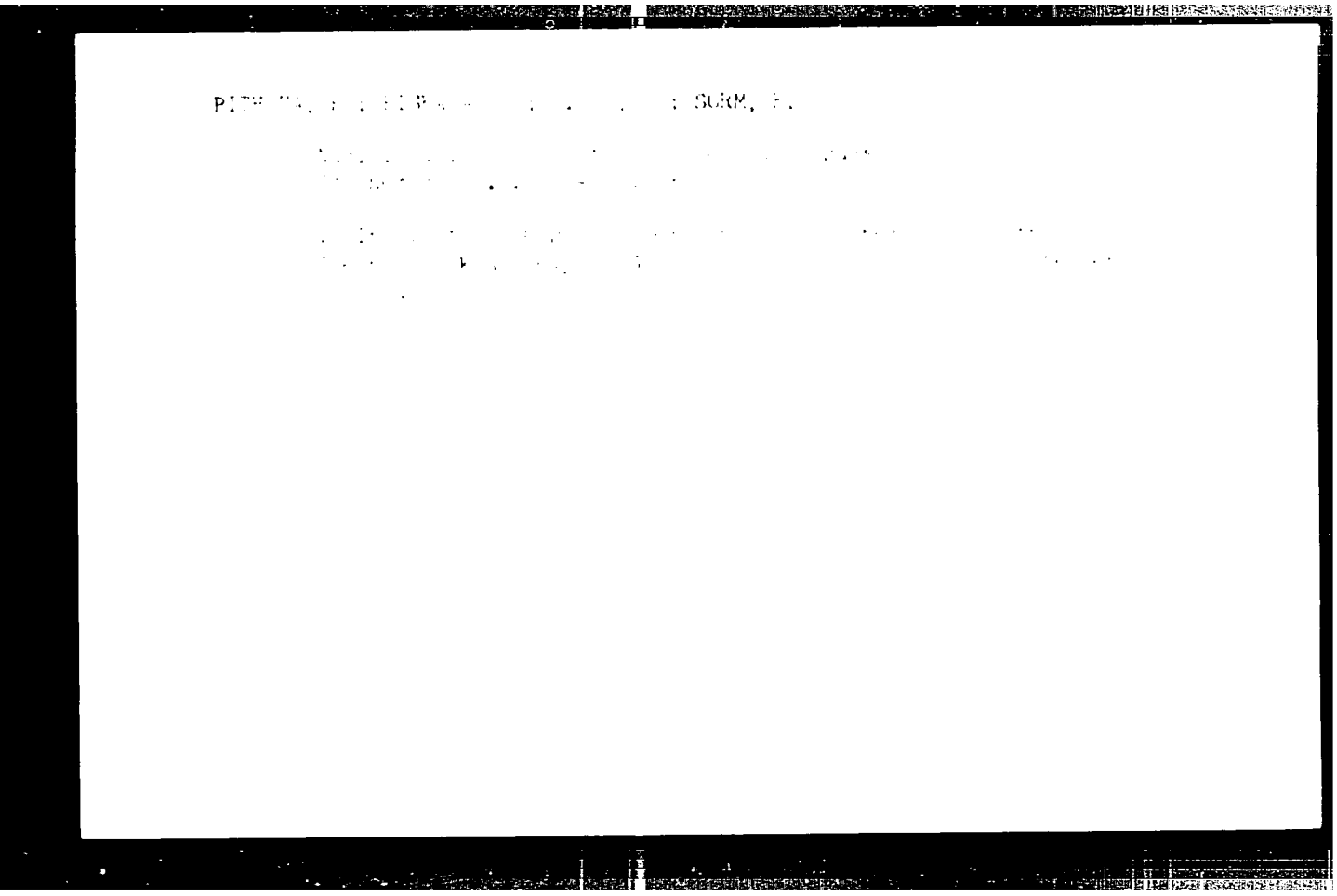
Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August, 1959. Uncl.

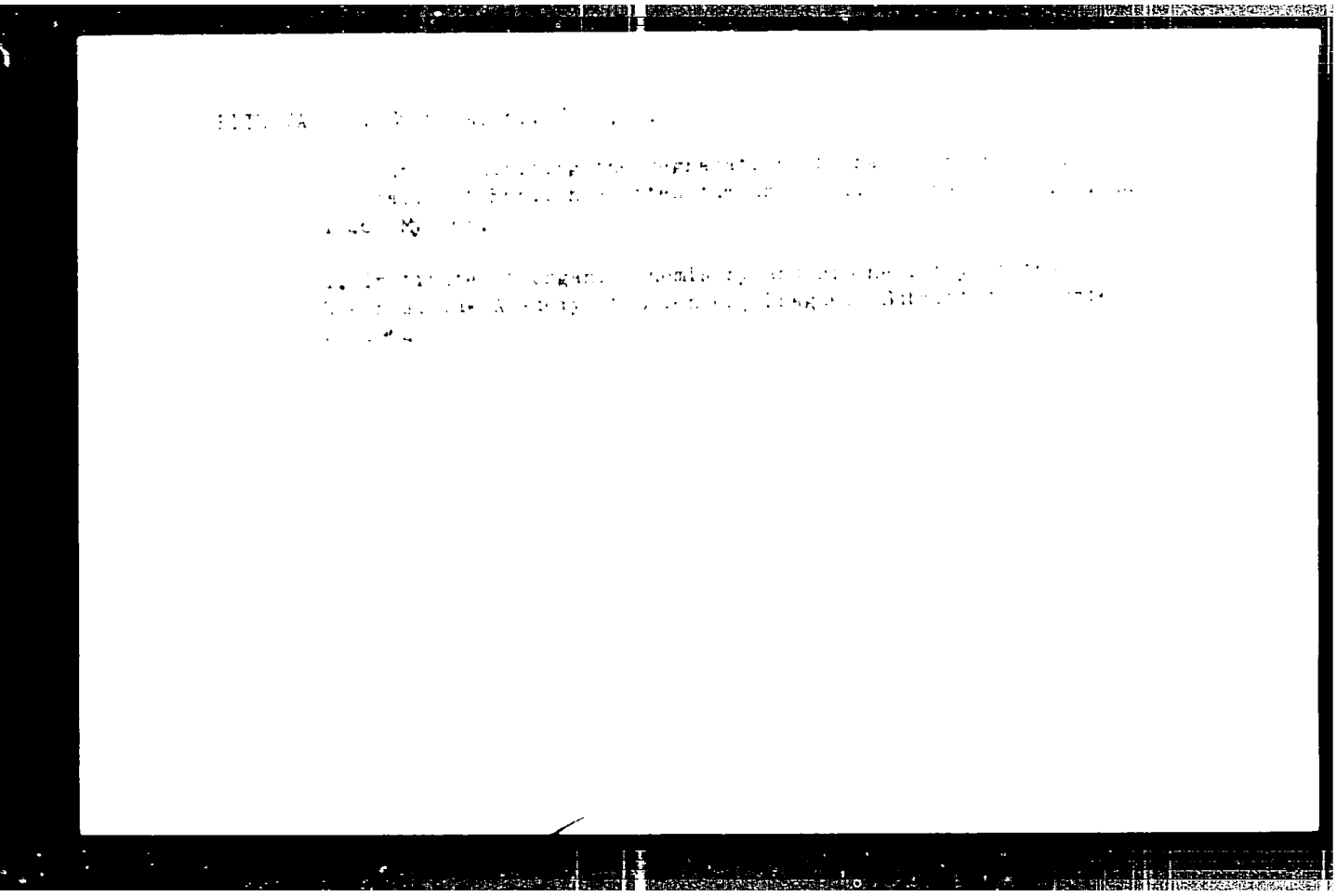
PITHOVA, F.; KRAUSKOPF, J.; FRAGNER, P.

Trichophyton violaceum Sabouraud 1902: epidemic in community of children. Cesk. epidem. mikrob. imun. 6 no.2:104-106 Mar 57.

1. Kozni oddeleni nemocnice v Tabore, prednosta prim. MUDr. F. Pithova, II. kozni klinika FN I v Praze, prednosta prof. MUDr. K. Hubschmann, Krajska hygienicko-epidemiologicka stanice KNV Praha, reditel MUDr. L. Hofta.
(RINGWORM, in inf. & child
Trichophyton violaceum infect., epidemic in Czech. child. community (Cz))







PITHOVA,P.; SORM, F.

Influence of some derivatives and structural analogues of pyrimidine and purine bases on the degradation of uracil. Coll Cz Chem 28 no.11:2977-2982 N'63.

1. Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague.

PITIC, I.

A study on the modernization of Victoria S2 parallel latches of the IPI type. p. 79.
(METALURGIA CONSTRUCTIA SI MASINI. BUCHAREST. Vol. 8, no. 5, May [illegible].)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

PITIMTSEV, G.N.; VOLKONSKIY, A.V.

Improving the system of automatic amplification control at the SS-26-51D seismic stations. Razved i prom. geofiz. no.24:3-8 '58. (MIRA 11:12)

(Seismometry) (Amplifiers, Electron)

Pitin, J.

Design and execution of the transfer of a historic rotunda. p. 1[illegible]. INZENYRSKE STAVBY. (Ministerstvo stavebnictvi) Praha. Vol. 4, no. 4, Apr. 1956.

Source: EEAL LC Vol. 5, No. 10 Oct. 1956

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Epp.
.R92764

Podzemnaya gazifikatsiya (underground gas lines, by) R. N. Pitin i I. L. FARBEROV. Moskva, izd-vo akademiya nauk SSSR, 1955.

78, (1) p. diagrs., ports., tables.

Bibliography: p. (79)

PITIN, R

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.R92764

Podzemnaya Gazifikatsiya (underground gas lines, by) R. N. Pitin i I. L. FAR[illegible]. Moskva, izd-vo akademiya nauk SSSR, 1955.

78, (1) p. diagrs. ports., tables.

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Ca 21

PROCESSES AND PROPERTIES INDEX

Underground gasification of coal of the Moscow region. N. V. Lavrov, R. N. Pitin and I. L. Farberov. *Bull. acad. sci. U. R. S. S., Classe sci. tech.* 1940, No. 4, 11-18; cf. *C. A.* **34**, 1461?, 7069.—Lab. expts. were made with heated air and with air enriched with O (up to 70%) at several temps. At a surface temp. of the coal of 900-1000° a porous ash is formed. At 1100-1200° the ash remains porous, but is considerably harder and preserves the original shape of the coal. At 1300-1400° a denser ash is formed with longitudinal cracks; this ash resembles fire-resistant, burned clay. At above 1500° a fused formless ash is obtained. When the gas passage was filled with sand after the coal had been ignited, an improvement of the gasification process was observed; the temp. of the reaction surface of the coal increased, the concn. of O in gas decreased sharply and that of the C oxides increased. The coal begins to ignite spontaneously on heating to 140-50°.

W. R. Henn

METALLURGICAL LITERATURE CLASSIFICATION

AMOSKIN, A. A., [illegible]

Power Eng. Institute, im. [illegible] Academy of Sciences, USSR.
"Application of a method of [illegible] charge with minute Audit. [illegible]--
this method Applicable in the coal by-product [illegible]." [illegible] Ak. Nauk [illegible],
Otdel. Tekh. Nauk, [illegible], [illegible]. Submitted 2 Apr. [illegible].

[illegible], 6 Dec. 1951.

PITIN, R. N.

G. M. Krzhizhanovskiy Energy [illegible], Acad. Sci. [illegible]

"[illegible]"

IZ. Ak. Nauk, Otdel Tekh. Nauk, [illegible]

PITIN, R. N.

"Effect of the Granulometric Composition of the Coal Charge on its Bulk Density and the Effectiveness of Wetting with Liquid Hydrocarbons," by A. A. Agroskin, V. S. Zagrebel'naya, and R. N. Pitin. Bull. acad. sci. URSS., Classe sci. tech., 1946, 849-62 (in Russian); cf. C.A. 40, 2283.

Expts. showed that the relative lowering of bulk weight of a coal charge by moisture is the more pronounced the finer the coal. The amt. of moisture corresponding to min. bulk weight of a given charge increases with increasing fineness of the grist. Under normal moisture conditions, the bulk weight increases with increasing coarseness; with 5% moisture, a 1% change in the class below 3 mm. grain size gives rise to an av. change of bulk weight by 0.2%. The bulk weight is further increased by widening of the dispersity limits; it can be raised to a max. through elimination of intermediate grain sizes. The weight-increasing effect of microaddns. of kerosene is the more efficient the finer the grist and the wider the limits of dispersity; elimination of intermediate sizes acts in the same direction.

N. Thon

PITIN, R. N.

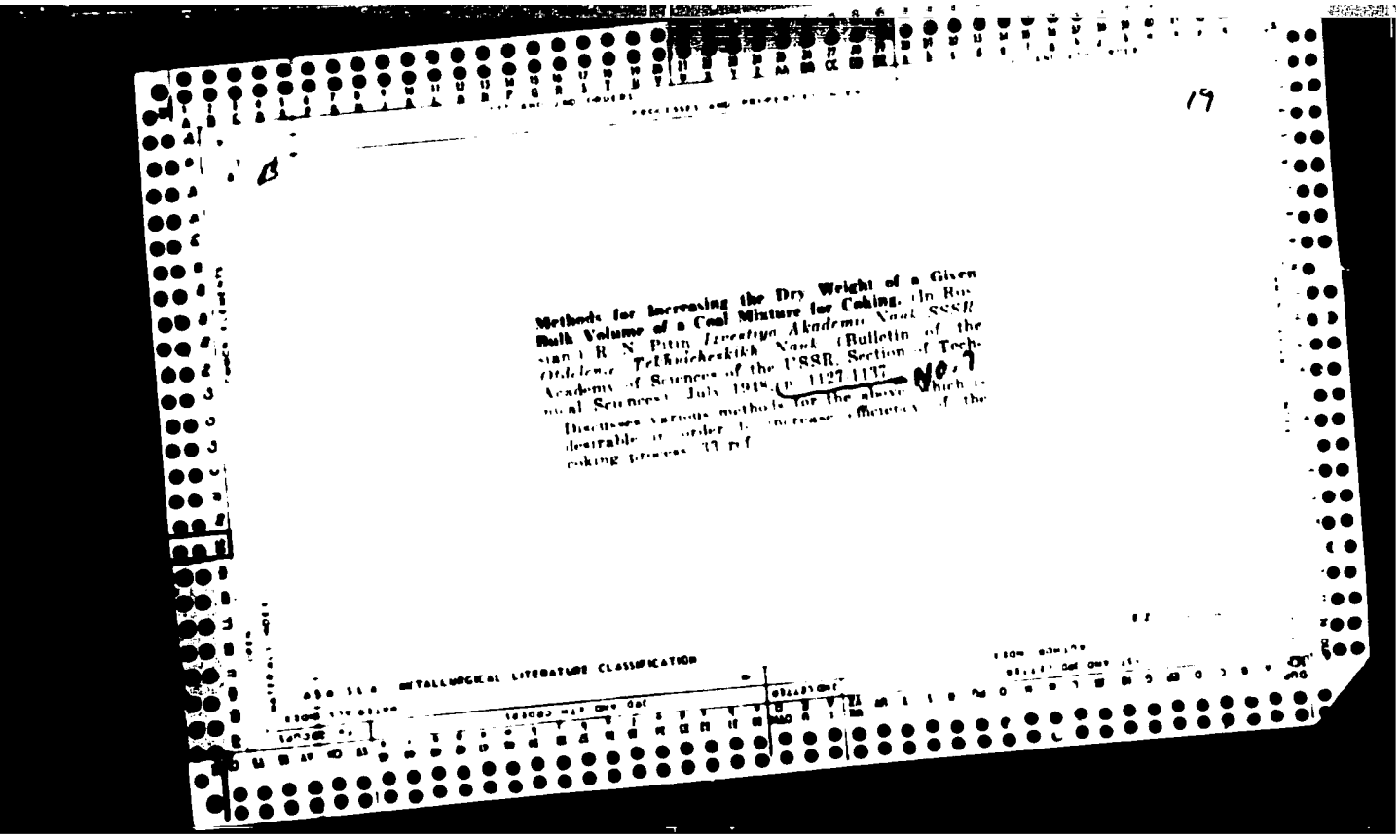
"New Method for Increasing the Productiveness and Work Economy of Coking and By-Product Plants," by A. A. Agroskin, S. M. Grigor'yev, and R. N. Pitin. Za Ekonomiya Topliva 3, No 11/12, 14-17, 1946; cf. C.A. 40, 5904.

The efficiency of coking plants was increased by adding 0.1-0.3% of a hydrocarbon to the coal to be coked and thoroughly mixing the two. Suitable for this purpose are kerosene and anthracene oil. The immediate effect is to increase the weight of a charge, but this treatment also improves the quality of the coking gas and the coke. It also permits coking of coals which ordinarily are not suitable for coking.

M. Hoseh

PITIN, Rafail Nikolayevich

"Calculations and Tables in Semi-coking Moskaca Region Coal and Fuels with Hard Heat-Transfer Media," Vest. Inzhenirov i Tekhnikov, No. 1, 1947.



Methods for Increasing the Dry Weight of a Given Bulk Volume of a Coal Mixture for Coking. (In Russian) R. N. Pitin, *Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk* (Bulletin of the Academy of Sciences of the USSR, Section of Technical Sciences), July 1948, pp. 1127-1137.

Discusses various methods for the above which is desirable in order to increase efficiency of the coking process. 33 ref.

METALLURGICAL LITERATURE CLASSIFICATION

PITIN, R. N.

USSR/Engineering Apr 49
Fuel
Coal

"Specific Weight of Several Coals of the Donets Basin," A. A. Agroskin, A. D. Mikhaylik, R. N. Pitin, V. S. Sapronov, Power Eng Inst imeni G. M. Krzhizhanovskiy, Acad Sci USSR, 6 pp

"Is Ak Nauk SSSR, Otdel Tekh Nauk" No 4

Trend toward increased loading of coking furnaces has made it important to increase specific weight of coal charges. Method of moistening coal charges with micro additions of hydrocarbon liquids is widely used for this purpose, This method is very effective in increasing specific weight of Donets Basin coals. Gives characteristics of five types of Donets Basin coals -- PZh-1, PZh-2, K, PS-1, and PS-2. Graphs show variation of specific weight with (1) addition of kerosene and (2) moisture. Submitted by Acad N. P. Chizhevskiy, 27 Jul 48.

PA 45/49T47

PITIN, R.N., kand. tekhn. nauk; CHEREDKOVA, K.I.

Effect of the rate of blow on the speed of drifting of combustion zones to the stage of connecting channels in underground coal gasification. Podzem. gaz. ugl. no.1:30-35 '59.
(MIRA 12:6)

1.Institut goryuchikh iskopayemykh AN SSSR.
(Coal gasification, Underground)

KRUKOVSKIY, V.K.; PITIN, R.N., kand.tekhn.nauk; FAERKROV, I.L., doktor tekhn.nauk prof.

Underground processing of oil shale without mining. Podzem. gas.ugl. no.3:8-10 '59. (MIRA 12:12)

1. Institut gornogo dela AN SSSR.
(Coal gasification, Underground)

L 21815-66 EWT(1)/EWT(m)/T (N) JW/JW/WE/OS
ACC NR: AT6004587 SOURCE CODE: UR/0000/65/000/000/0112/0119

AUTHOR: Kantorovich, B. V. (Doctor of technical sciences, Professor); Pitin, R. N.; Cheredkova, K. I.

ORG: none

TITLE: Investigation of the conductivity of gas-air flame containing solid fuel particles

SOURCE: AN SSSR. Institut goryuchikh iskopayemykh. Novyye metody szhiganiya topliv i voprosy teorii goreniya (New methods in the combustion of fuels and problems in the theory of combustion). Moscow, Izd-vo Nauka, 1965, 112-119

TOPIC TAGS: flame temperature, electric conductance, temperature distribution, combustion temperature

ABSTRACT: The effect of solid fuel particles on electric conductivity and temperature distribution along the axis of a flame obtained by burning of methane-air mixture were investigated. In all experiments the air excess coefficient α was equal to 0.95 and the burning gas mixture flow rate was equal to 4.5 m/sec. The diameter of the solid particles varied with 0-250 microns and their concentration in

Card 1/3

L 21815-66
ACC NR: AT6004587

0

the gas mixture varied with 0-5.7%. The solid particles were made of lignite from Moscow Oblast, shale, hard coal from Polysayevo and coke. These solid fuels contained various quantities of BaO, Sr, Li, Rb, Cs, SiO_2, Al_2O_3, Mn_3O_4, Fe_2O_3, TiO_2, CaO, MgO, K_2O, and Na_2O. In general, the presence of solid particles in the methane--air flame results in increased flame electrical conductivity and in an extended region of high electrical conductivity as compared with solid free flames. The change of maximum electrical current and temperature of the flame due to the presence of various solid fuels is shown in figure 1. Orig. art. has: 6 figures, 2 tables.

Card 2/3

L 21815-66
ACC NR: AT6004587

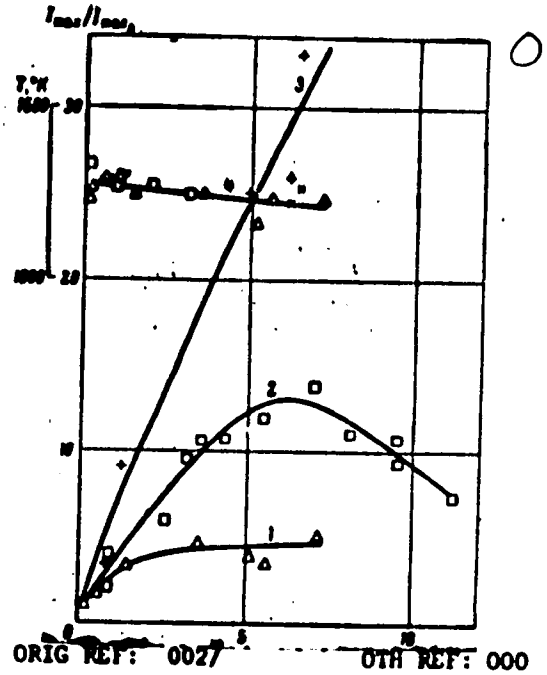


Fig. 1. 1,Δ--lignite from Moscow region; 2,[]--Polysayevo hard coal; 3, ×--shale; 4--temperature curve

SUB CODE: 21/ SUBM DATE: 09Sep65/ ORIG REF: 002/ OTH REF: 000
Card 3/3 PB

L 21816-66 EWT(1)/EWT(m)/T WW/JW/WE/JXT(CZ)/GS
ACC NR: AT6004588 (N) SOURCE CODE: UR/0000/65/000/000/0120/0125

AUTHOR: Golovina, G. S.; Kantorovich, B. V. (Doctor of technical sciences, Professor); Pitin, R. N.

ORG: none

TITLE: The effect of combustion conditions on electrical conductivity in a gas-air flame

SOURCE: AN SSSR. Institut goryuchikh iskopayemykh. Novyye metody szhiganiya topliv i voprosy teorii goreniya (New methods in the combustion of fuels and problems in the theory of combustion). Moscow, Izd-vo Nauka, 1965, 120-125

TOPIC TAGS: flame, flame temperature, combustion temperature, conduction electron, electric conductance, methane

ABSTRACT: The effect of the air excess factor and the rate of gas flow on electrical conductivity in methane-air flames were investigated. The experimental setup is shown in figure 1. The maximum electrical conductivity of the flame falls within $\alpha = 0.8$-1.0; α is the air excess coefficient. It was found that the magnitude

Card 1/3

L 21816-66

ACC NR: AT6004588

and distribution of electrical conductivity in the flame depends upon the flow rate of the combustible gas mixture. An increase in the flow rate of air-rich mixtures results in higher maximum electrical flame conductivity while the reverse is true for air-lean mixtures. The dependence of the magnitude of the maximum electrical current upon α is shown in figure 2. The dependence of the maximum current along the flame axis upon gas mixture flow rate at various α's and electron current between the electrodes along the flame axis as a function of gas mixture flow rate at various air excess coefficients are graphed. Orig. art. has: 6 figures.

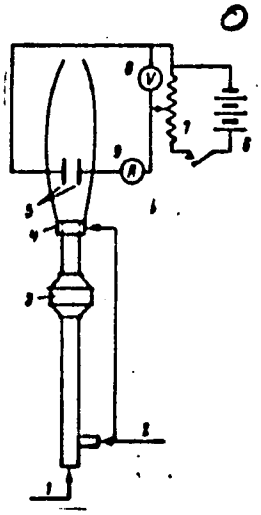


Fig. 1. 1--air from a compressor; 2--town gas; 3--mixer; 4--flame initiator; 5--electrodes; 6--battery; 7--resistor; 8--voltmeter; 9--a microammeter.

Card 2/3

L 21816-66

ACC NR: AT6004588

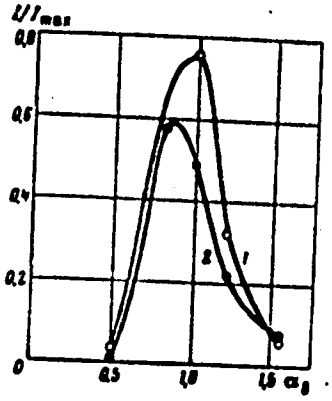


Fig. 2. The dependence of the magnitude of the maximum electrical current (I/I_{max}) upon the air excess coefficient α for various gas mixture flow rates v:
1--v = 4.35 m/sec; 2--v = 2.98 m/sec.

SUB CODE: 21,07/ SUBM DATE: 09Sep65/ ORIG REF: 005/ OTH REF: 002

Card 3/3 mst

L 14479-66 EWT(1)/EWT(m)/T IJP(c) WW/JW/JWD/WE/GS

ACC NR: AT6004586 SOURCE CODE: UR/0000/65/000/000/0106/0111

AUTHOR: Alekseyev, A. M.; Kastorovich, B. V. (Doctor of technical sciences; Professor); Golovina, G. S.; Ivanov, V. M.; Pitin, R. M.; Ponnik, Yu. A.; Frenkina, E. I.; Cherednova, K. I.

ORG: none

TITLE: Study of the effect of a magnetic field on a stream of burning fuel

SOURCE: AN SSSR. Institut goryuchikh iskopayemykh. Novyye metody szhiganiya topliv i voprosy teorii goreniya (New methods in the combustion of fuels and problems in the theory of combustion). Moscow, Izd-vo Nauka, 1965, 106-111.

TOPIC TAGS: combustion, propulsion, magnetic field, gas combustion

ABSTRACT: It has been previously shown that the shape of a flame can be substantially changed and the burning velocity can be increased by the application of a magnetic field. Therefore, the use of a magnetic field to intensify combustion processes is considered in the present study, by determining the effect of a magnetic field on a burning CH_4-oxygen jet issuing from a combustion chamber through a 19.5 x 9.4 mm nozzle into air. Two cooled poles of a magnet 120 mm long were placed 15 mm from the nozzle outlet to generate a magnetic induction of 16 kgs in the 10-mm-wide gap through which the jet passed. The velocity of the gas jet was close to sonic. Measurements were made of the velocity, the flame temperature, and concentrations along the axis in the presence and absence of the magnetic field. The results

Card 1/2

L 14479-66

ACC NR: AT6004586

showed that due to the magnetic field the flame temperature increased by 100—200C, the velocity decreased, and the dilution with ambient air decreased. These changes are attributed to the partial conversion of kinetic into thermal energy caused by the magnetic field. Orig. art. has: 5 figures. [PV]

SUB CODE: 21/ SUBM DATE: 09Sep65/ ORIG REF: 002/ ATD PRESS: 4194

Card 2/2

AG[illegible], Anatoliy Abramovich, [illegible] [illegible] J. M., doktor tekhn. nauk; [illegible] [illegible] nauk; [illegible], [illegible], kand. khim. nauk; [illegible] kand. [illegible] nauk, [illegible], [illegible] tekhn. nauk, [illegible], Ye. [illegible]

[Physics [illegible]] [illegible] Moskva, [illegible] 1 [illegible]

KRUKOVSKIY, V.K.; MIROYEDOVA, Y[illegible].V.; PITIN, R.N.; FARBEROV, I.L.

Hydrodynamic characteristics of a seam of kukersite oil shales. Trudy IGI 10:262-267 '61. (MIRA 10:7)
(Oil shales) (Hydrodynamics)

PITIN, R.N.; CHEREDKOVA, K.I.

Shifting of gasification zones and its thermal effect on fuel.
Trudy IGI 16:276-283 '61. (MIRA 16:7)
(Coal gasification, Underground)

PITIN, R.N.; PONNIK, Yu.A.

Aerodynamic effectiveness of a hydraulic breakdown of a seam in the underground gasification of coals. Trudy IGI 16:284-294 '61.
(MIRA 16:7)
(Coal gasification, Underground)

PITIN, R.N.

Permeability of fractured seams of solid fossil fuels. Trudy IGI 16:268-275 '61. (MIRA 16:7)
(Fuel) (Rocks--Permeability)

KIRICHENKO, I.P., kand. tekhn. nauk; PITIN, R.N., kand. tekhn. nauk; FARBEROV, I.L., doktor tekhn. nauk; FEDOROV, N.A., kand. tekhn. nauk

Some problems in recovery without mining and in underground preparation of fuels and other minerals. Nauch. trudy VNIIPodzemgaza no.8:3-10 '62. (MIRA 16:6)

1. Institut goryuchikh iskopayemykh Gosudarstvennogo komiteta po toplivu i Vsesoyuznyy nauchno-issledovatel'skiy institut podzemnoy gazifikatsii ugley.
(Coal gasification, Underground)
(Sublimation(Physical sciences))

PITIN, R.N.

Permeability of a layer of moist fuels and other free-flowing materials. Trudy IGI 19:148-159 '62. (MIRA 16:4)
(Coal gasification) (Fuel—Permeability)

PITIN, R.N.

Problems in reducing the leakage of air blast and gas in the underground gasification of Moscow brown coals. Trudy IGI 13:115-124 '60. (MIRA 14:5)

(Coal gasification, Underground)

PITIN, R.N.; PONNIK, Yu.A.

Distribution of blasts in the process of borehole connection in underground coal gasification. Trudy IGI 13:131-143 '60.
(MIRA 14:5)

(Coal gasification, Underground)

PITIN, R.N.; MIRINGOF, N.S.; LEVANEVSKIY, V.S.

Effect of some technological parameters of the process of underground coal gasification on the amount of gas leakage. Trudy IGI 13:103-114 '60. (MIRA 14:5)
(Coal gasification, Underground)

YEGIN, R.N.; GOLOVINA, G.S.

Some results of the investigation of electroösmosis in Moscow brown coal. Trudy IGI 13:52-60 '60. (MIRA 14:5)
(Coal) (Electroösmosis)

PITIN, R.N.; CHEREDKOVA, K.I.

Effect of the oxygen concentration in the air blast on the displacement rate of combustion zones at the formation stage of channel connections in underground gasification. Trudy IGI 13:61-70 '60. (MIRA 14:5)

(Coal gasification, Underground)

PITIN, R.N.; CHEREDKOVA, K.I.

Displacement rate of combustion zones and fuel moisture at the formation stage of borehole connections in the underground gasification. Trudy IGI 13:71-74 '60. (MIRA 14:5)
(Coal gasification, Underground)

AL'TSHULER, V.S.; LAVROV, N.V.; PITIN, R.N.; FARBEROV, I.L.; SHAFIR, G.S.

Underground gasification of coals under high pressure. Trudy IGI 13:75-82 '60. (MIRA 14:5)
(Coal gasification, Underground)

KRUKOVSKIY, V.K.; PITIN, R.N.; FARBEROV, I.L.

Combustion and gasification of oil shale in a channel. Trudy IGI 13:87-96 '60. (MIRA 14:5)
(Coal gasification, Underground) (Oil shales)

KRUKOVSKIY, V.K.; PITIN, R.N.; FARBEROV, I.L.

Gas formation during the gasification of oil shales in a channel.
Trudy IGI 13:97-102 '60. (MIRA 14:5)
(Coal gasification, Underground) (Oil shales)

LOSEV, B.I.; MEL'NIKOVA, A.N.; PITIN, R.N.; FAR EROV, I.L.

Volatility of germanium in coals. Trudy IGI 13:164-166 '60.
(MIRA 14:5)

(Germanium) (Coal)

KANTOROVICH, Boris Veniaminovich. Prinimal uchastiye IVANOV, V.M., kand. tekhn.nauk. AGROSKIN, A.A., prof., doktor tekhn.nauk, retsenzent; PITIN, R.N., kand.tekhn.nauk, nauchnyy red.; LANOVSKAYA, M.R., red.izd-va; KARASEV, A.I., tekhn.red.

[Introduction to the theory of coal combustion and gasification] Vvedenie v teoriiu goreniia i gazifikatsii tverdogo topliva. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 355 p. (MIRA 13:10)
(Combustion) (Coal gasification)

FEDOSEYEV, Sergey Dmitriyevich; CHERNYSHEV, Andrey Borisovich [deceased]; AL'TSHULER, V.S., doktor tekhn.nauk, retsenzent; PITIN, R.N., kand.tekhn.nauk, red.; YEFREMOVA, T.D., vedushchiy red.; FEDOTOVA, I.O., tekhn.red.

[Semicoking and gasification of solid fuel] Polukoksovanie i gazifikatsiia tverdogo topliva. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 325 p. (MIRA 13:7)
(Fuel) (Carbonization)