

LIVANOV, A.P.; PIKUSHOV, A.N.

Febr... braking of a motor vehicle with a four-cycle diesel
engine. Avt. prom. 30 no.6:7-10 Je '64. (MIRA 17:12)

1. Tsentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii
i energetiki lesnoy promyshlennosti, Kavkazskiy filial.

YAKUBOVICH, I.A.; PASKHIN, N.I.; VILYANSKIY, M.P.; BABIN, S.Ye.; GLAVUTSKAYA,
N.I.; Prinsipialni uchastiy: PARADNYA, P.I.; RUPNEVSKAYA, M.I.; PURISMAN,
V.I.; LECNOVA, I.F.; PACHKOV, A.S.; BACHURINA, K.M.; FECHIN, M.I.;
YUKSINA, L.A.; PONOMAREV, Yu.F.; DYMOVICH, Ye.I.; PIKUSOVA, R.A.

Production and use of synthetic water-soluble polyacrylamide
adhesives. Fern. i sint. prom. 30 no.8:32-34 '64.

1. Moskovskiy khimiko-tekhnicheskyy zavod.

(MIRA 18:1)

ZMEYEV, Aleksey Andreyevich; KOVALEV, Nikolay Grigor'yevich;
PIKUZ, A.N., red.; POPOV, A.N., red. izd-va; TSAOURIYA, G.M.,
tekhn. red.

[Railroad rolling stock; the production and foreign trade of
capitalist countries] Zheleznodorozhnyi podvizhnoi sostav;
proizvodstvo i vneshniaia trgovlia kapitalisticheskikh stran.
Moskva, Vneshtorgizdat, 1962. 214 p.

(Railroads—Rolling stock)

(Commerce)

(MIRA 16:1)

PIKUZA, I.F., kand. tekhn. nauk.

Separation of grain by means of belt-type grain cleaning machines.
Sol'khoz mashina no.12:15-19 D '57. (MIRA 11:2)

(Grain--Cleaning)

PIKUZA, I. F.

Doc Tech Sci - (diss) "Study of the working processes of grain throwers." Leningrad-Pushkin, 1961. 40 pp; with illustrations; (Ministry of Agriculture RSFSR, Leningrad Agricultural Inst); 150 copies; free; bibliography at end of text (10 entries); (KL, 7-61 sup, 230)

PIKUZA, R.

"Regeneration and sanitization of seed lots 'Gordelium 11'." Ann. Agr. Sci., Czech Agricultural Inst, Brno, 1963. (Zem. 1, No 8, 1963)

Survey of Scientific Research Publications before and after
educational institutions (1)
SC: Sum. No. 45, 24 Jun 65

PIKUZA, V.I. (Kazan')

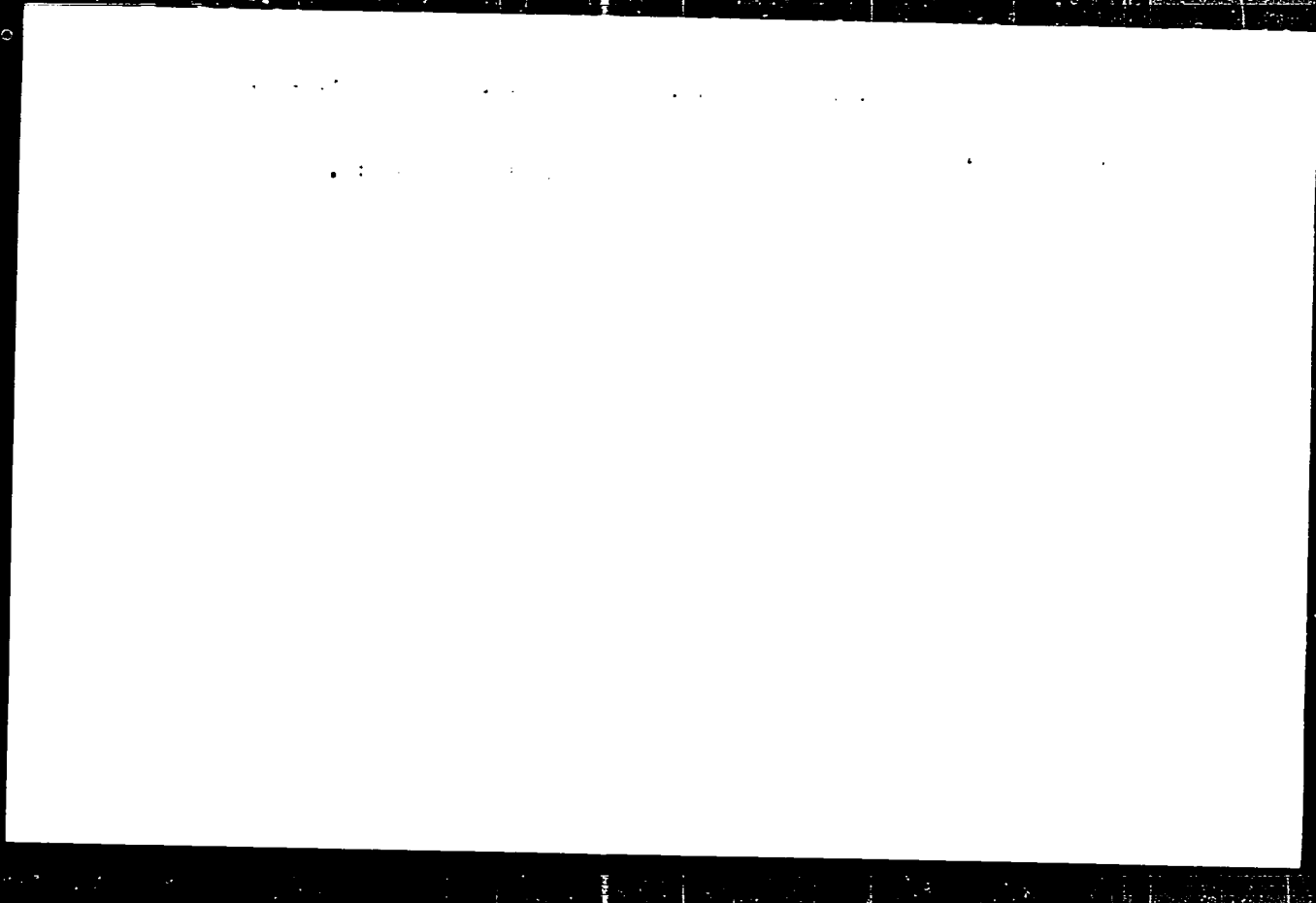
Effect of the nonuniformities of producing layers on the
curves of pressure build-up and hydraulic sounding. Izv.
AN SSSR.Otd.tekh.nauk.Mekh.i mashinostr. no.1:146-149 Ja-F
'63.

(MIRA 16:2)

(Oil reservoir engineering)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001240



APPROVED FOR RELEASE: Tuesday, August 01, 2000

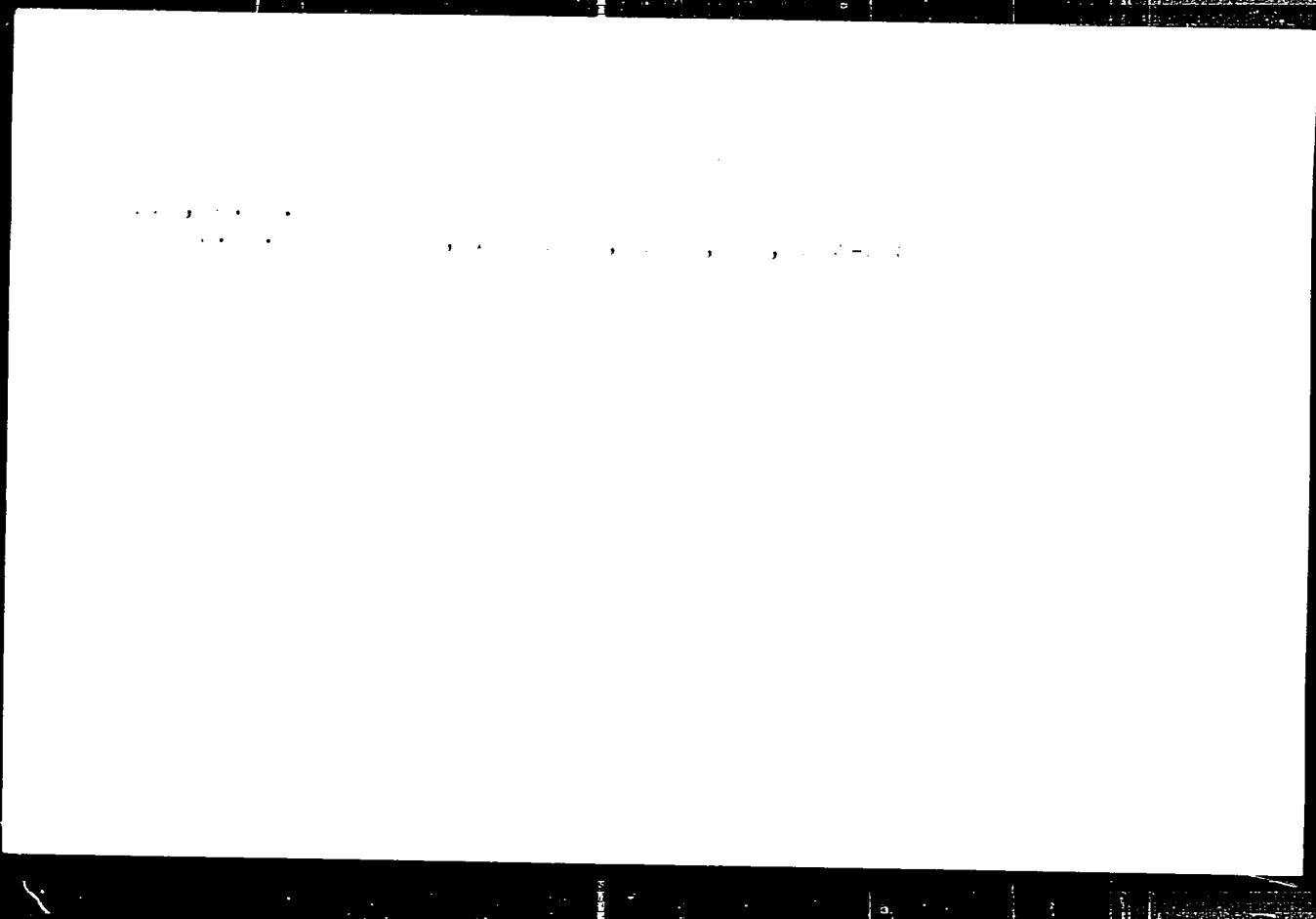
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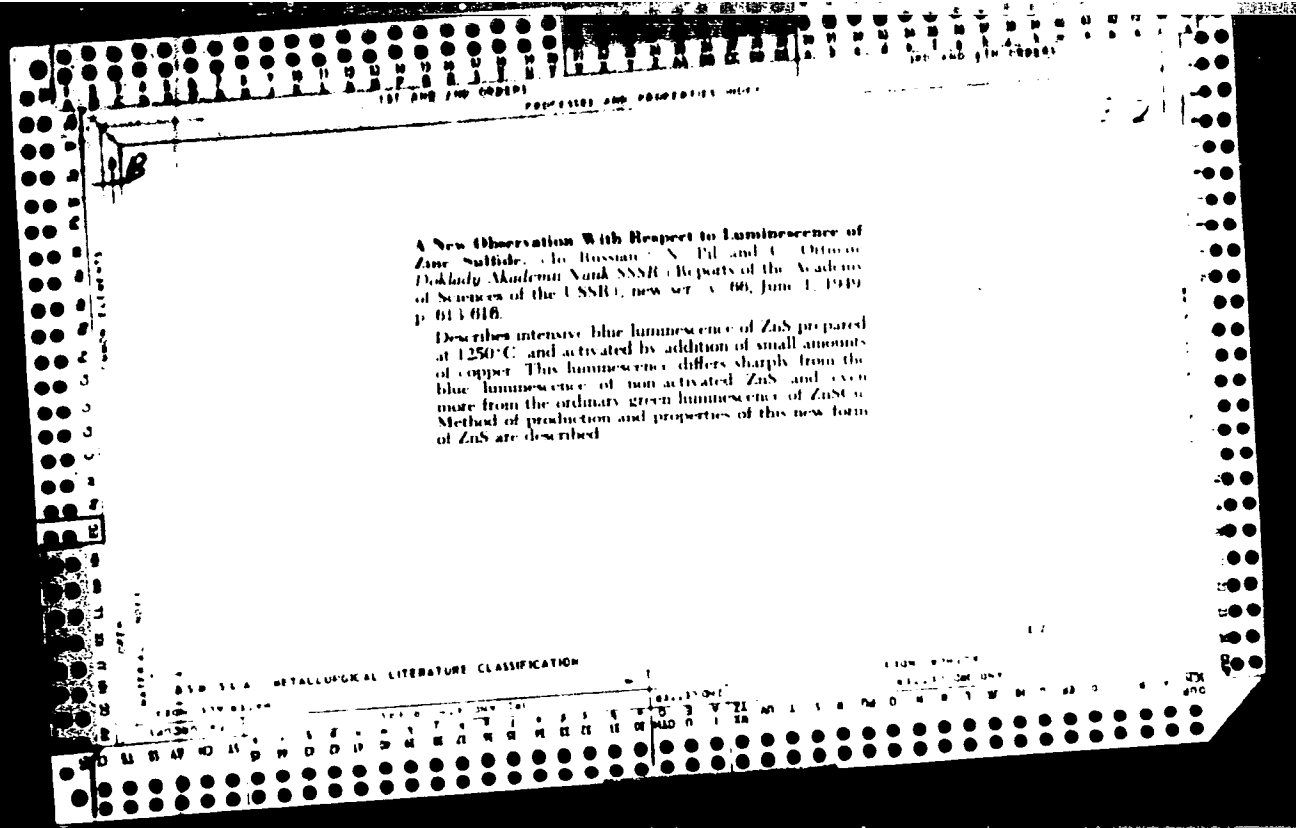
GAL'PERIN, M. D.; PIL', B. N.; KARVASARSKIY, B. D.

Radiation therapy of opticochiasmatic arachnitis. Med. rad. no.4:
18-24 '62. (MIRA 15:6)

1. Iz rentgenologicheskogo otdeleniya (zav. - prof. M. D. Gal'perin) Nauchno-issledovatel'skogo psikhonerologicheskogo instituta imeni V. M. Bekhtereva.

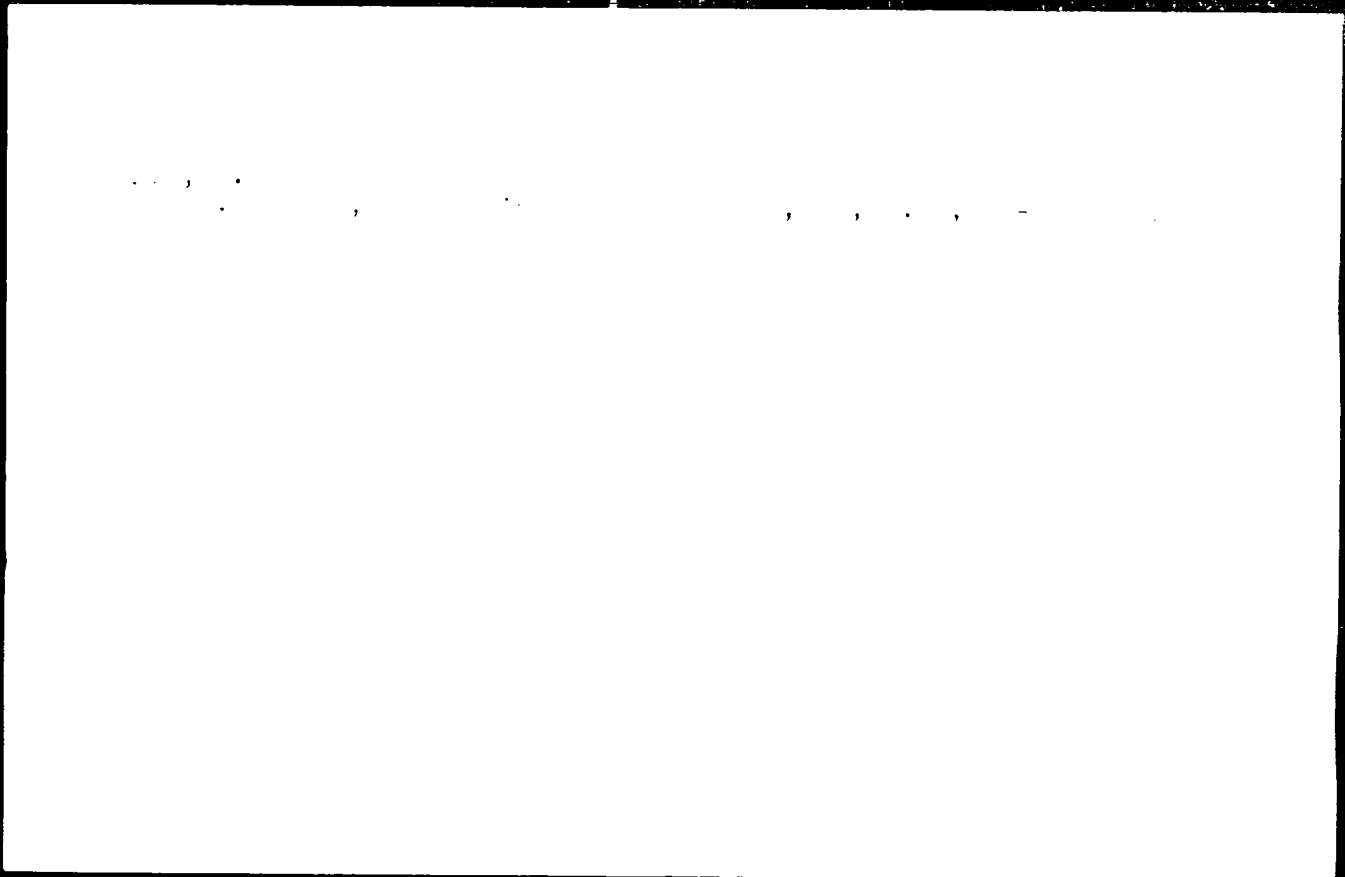
(MENINGITIS) (RADIOTHERAPY)





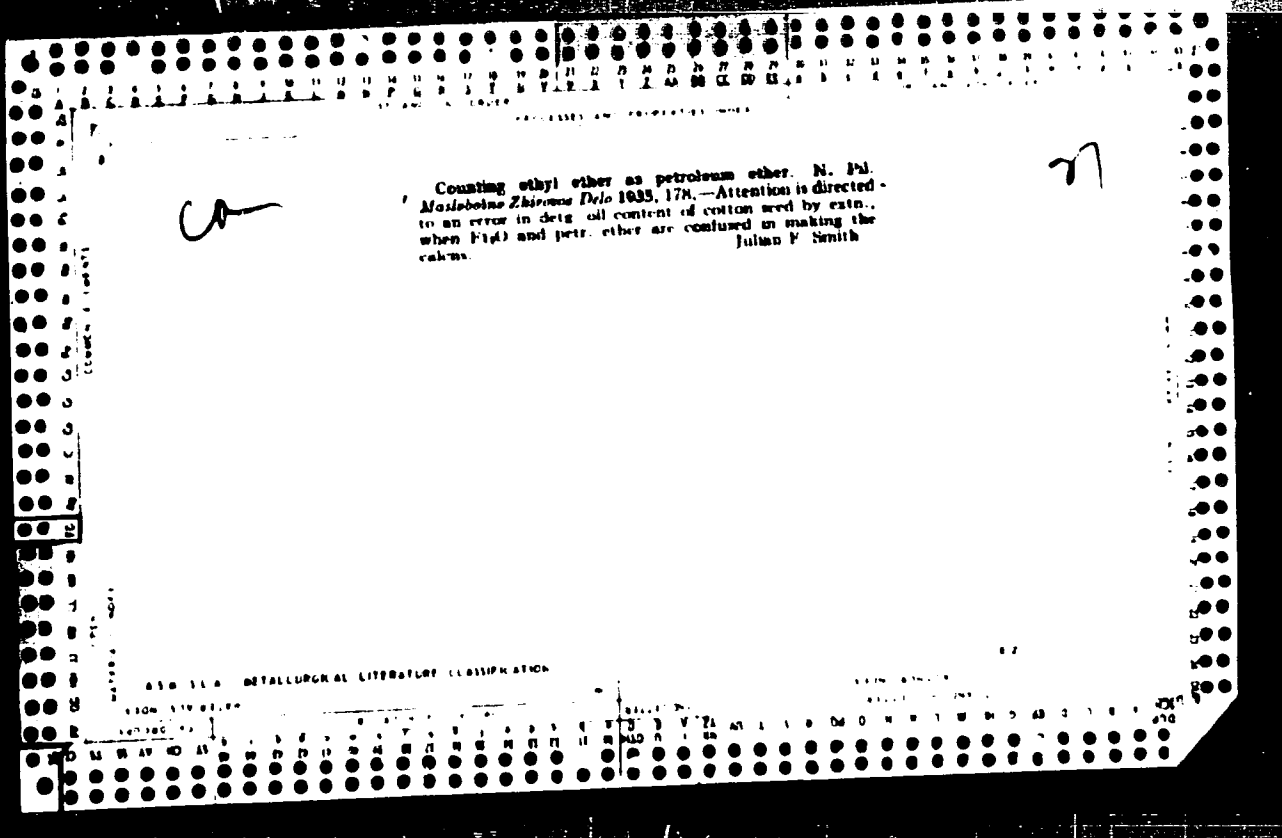
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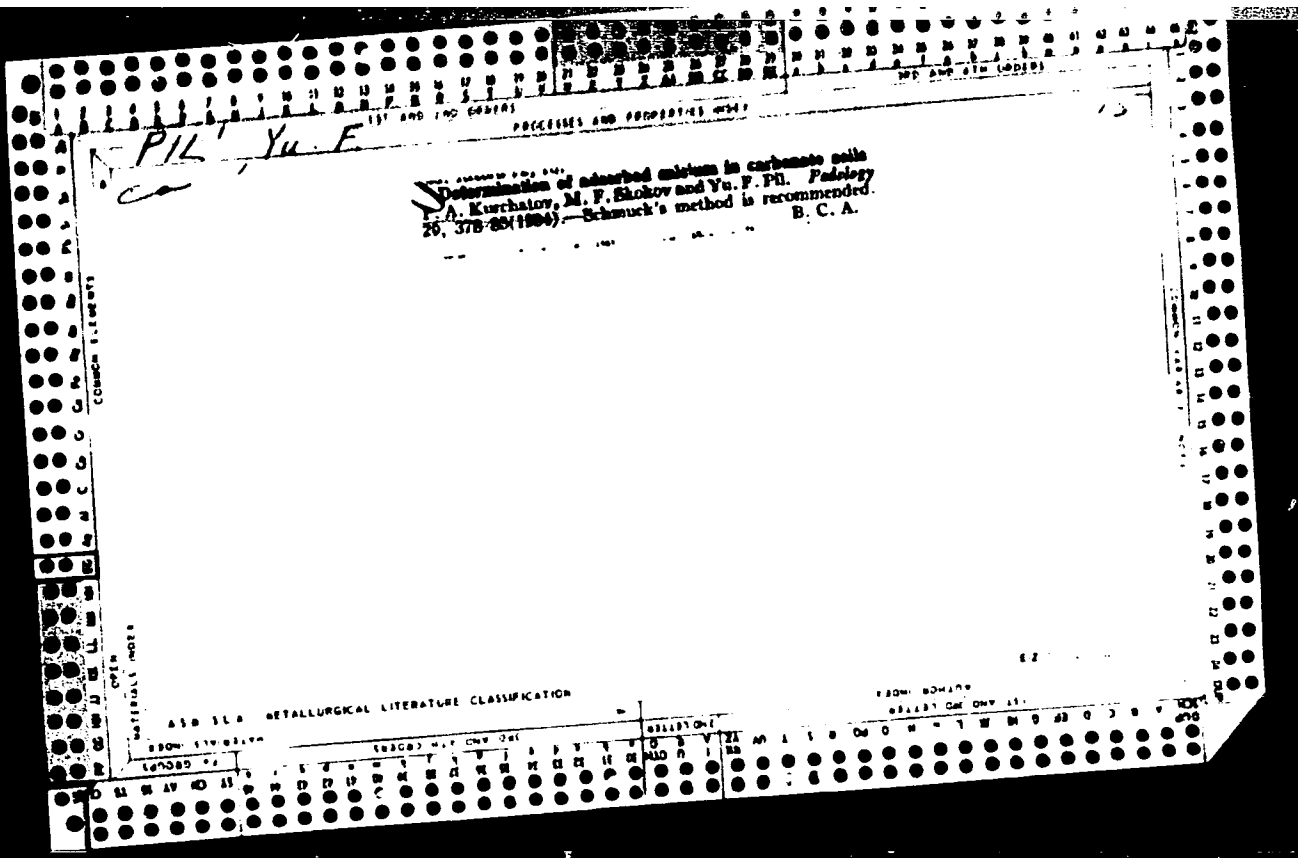
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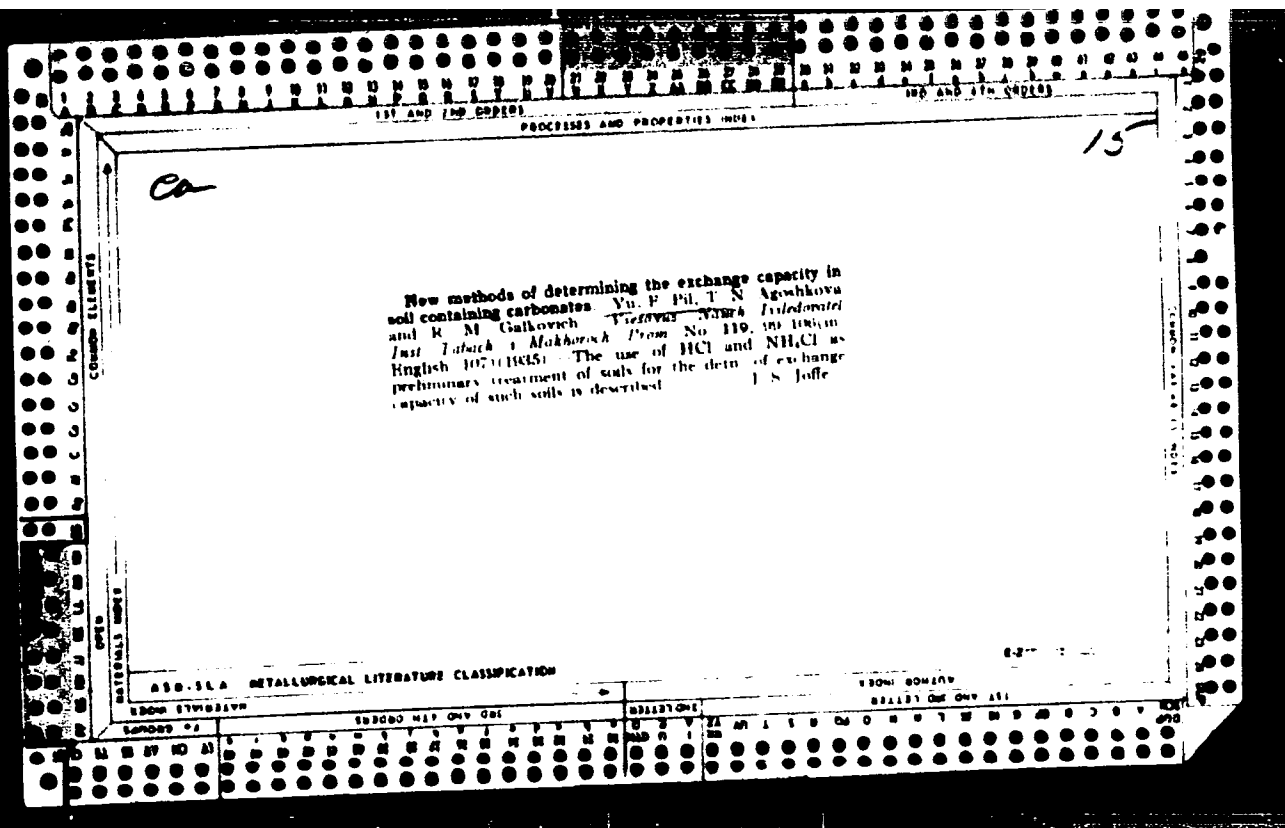


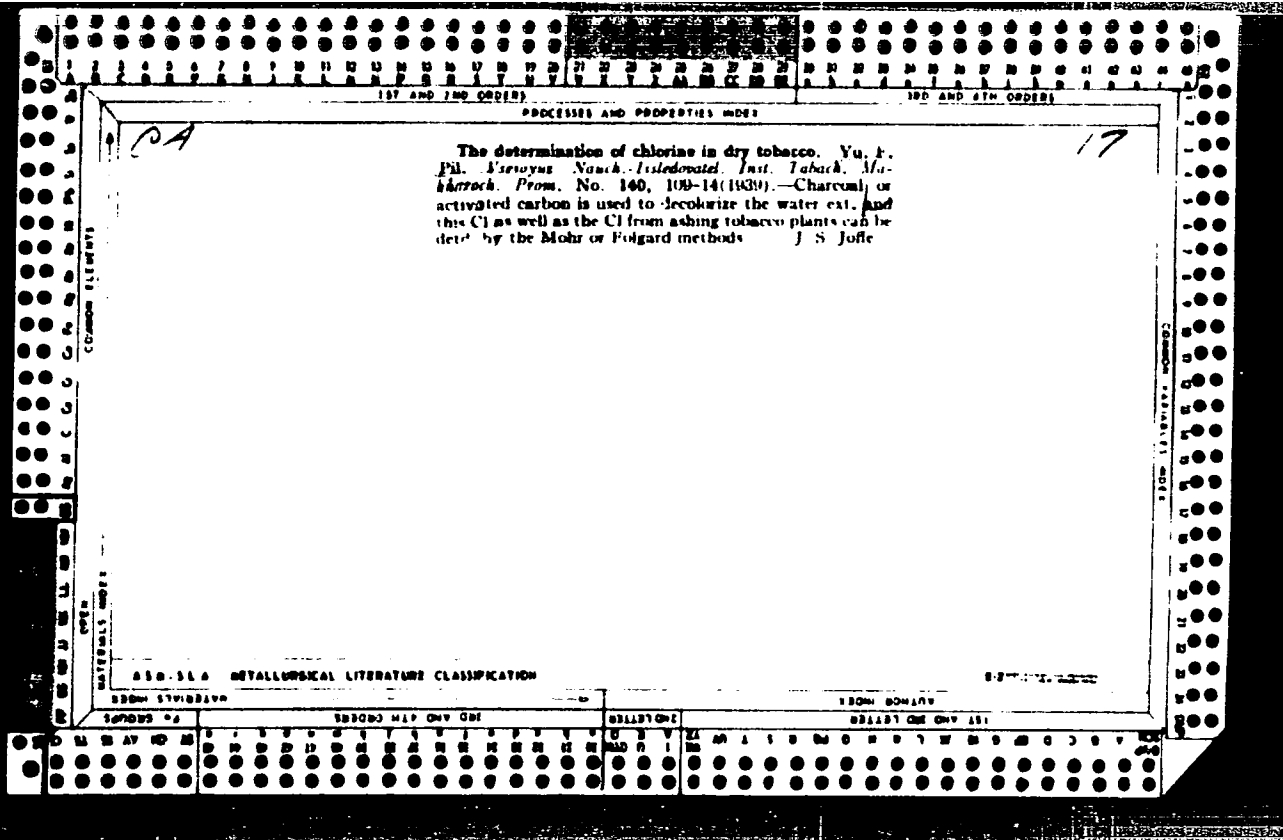
GAL'PERIN, M.D.; ZAYCHIKOVA, N.A. [deceased]; PIL', B.N.

Significance of contrast methods of investigation in the diagnosis
of nervous and mental diseases. Trudy Gos. nauch.-issl. psikhonevr.
inst. no. 20:41-53 '59. (MIRA 14:1)

1. Gosudarstvennyy nauchno-issledovatel'skiy psikhonevrologicheskiy
institut imeni V.M. Bekhtereva, Leningrad.
(NERVOUS SYSTEM—DISEASES) (BRAIN—RADIOGRAPHY)







FILE, No. 7.

FILE, No. 7. "On
Trade Solvency 100

SO: 100, 100

PII, fu... M/IS, N...

Reference of
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9-20-

SYUDMAK, N.V.; PIL', Yu.F.; VARSHAVSKAYA, K.A.

Trilonometric determination of calcium and magnesium in blood serum. Vrach. delo no.11:110-113 N '61. (MIRA 14:11)

1. Rovenskoye obblechsanupravleniye i kafedra pochvovedeniya zav. - dotsent Yu.F.Pil') Ukrainskogo instituta inzhenerov vodnogo khozyaystva.

(BLOOD--ANALYSIS AND CHEMISTRY)
(CALCIUM IN THE BODY) (MAGNESIUM IN THE BODY)

P/014/61/040/003/004/005
A221/A126

AUTHORS: Biernat, Janusz; Głowacz, Kazimierz; Łoziński, Jan; Pilch,
Władysław and Stachurski, Józef

TITLE: Production of commercial concentrates of zircon, ilmenite
and monazite from indigenous sea sands

PERIODICAL: Przemysł Chemiczny, no 3, 1961, 149-150

TEXT: In this article a method is described by which zircon,
ilmenite and monazite concentrates can be obtained from sea sands. For
several years the Instytut Metali Lekkich (Light Metals Institute)
carried out investigations in that direction but without success. The
authors managed to develop the method by which a product of standard
purity can be obtained. The final zircon concentrate is obtained by
separating same from rutile by means of flotation. Before floating
the mixture of zircon and rutile grains must be specially treated with
0.4% solution of fatty acid salts at 95°C. By doing so selective
adsorption takes place and fatty acid anions are adsorbed by zircon.

Card 1/3

Production of commercial ...

P/014/61/040/003/004/005

A221/A126

grains. After this treatment the grains are washed first in water and afterwards with diluted sulfuric acid. Fatty acids adsorbed are now converted into fatty acids hard to solve. Fatty acids are not wetted by water, therefore zircon grains are becoming hydrophobic. From the mixture so prepared, titano-magnetite, ilmenite and garnet are removed by magnets and the remaining grains diverted into flotation chamber. Before flotation this mixture contained about 70% zircon, 14% rutile and 14% of other opaque minerals. After flotation the concentration of zircon is increased to 97% with 87% efficiency. Obtaining ilmenite concentrate. From the sea sands treated with magnetic enrichment, a mixture of ilmenite and titano-magnetite was obtained. This mixture was roasted in CO atmosphere at 700°C. The product of this treatment was subjected to another magnetic enrichment from which two products were obtained: The titano-magnetite and ilmenite with 50.25% of TiO₂. Monazite separation: In sea sand samples 0.1% of monazite was detected. In the concentrate obtained there were 90.97% of monazite, 1.5% zircon, 0.9% of garnets and 6.63% of opaque minerals. (Abstractor's note: No details of monazite extraction are given.) The authors conclude: Polish sea

Card 2/3

PILACKI, M.

"The Problem of the Cultivation of Neglected Waters." p. 23, (GOSPODARKA RYBNA, Vol. 5, no. 2, Feb. 1953, Warsaw, Poland).

SO: Monthly List of East European Accession, Lib of Congress, Vol 2, no 10 Oct. 1953, Uncl.

PILAVIC, P.

USCR

Moscow

On: "Institute of Topography and
Geocology".

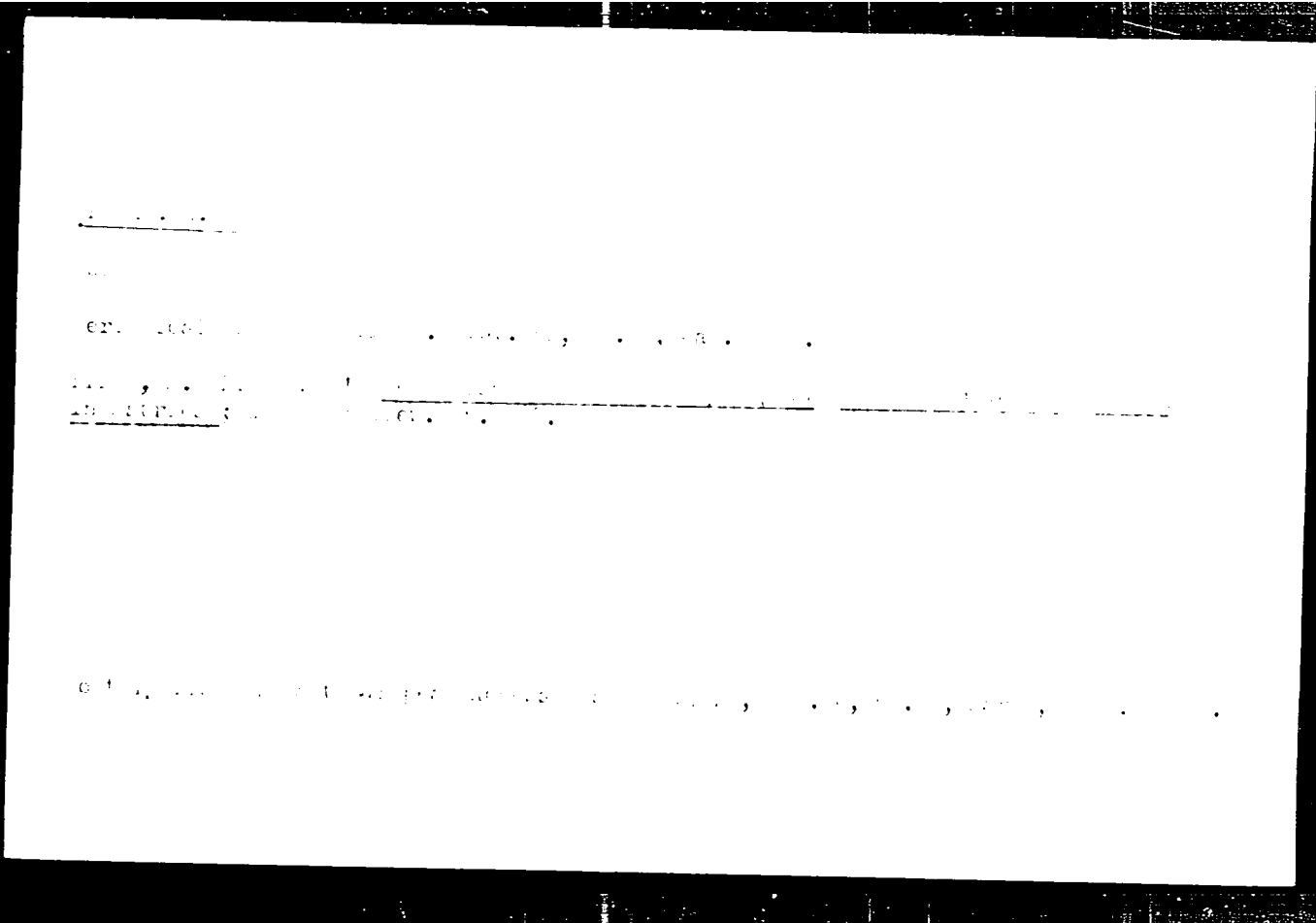
Source: P. Bobnitsa, July 1977, Moscow

Abstracted in USAF "Treasure Island" report 13497 on file in Library of Congress, Air Information Division.

ILAKH V. P.

On: "Institute of Obstetrics and Gynecology".

Soviet Source: F: Rabinitsa, July 21, 1954 Abstracted in "AF Intelligence Review" Report No. 1347, on file in Library of Congress, Air Information Division.



PILAB. A.

Handwritten: ~~100-100000~~
M. A. and Paschod, V. J. Zákklady chemického inženýrství. Prágu: Státní nakl. tech. lit. 1968. 380 pp.
Kč. 23.45. Reviewed in Chem. Listy 51, 302-3 (1957).

1111, 1.

Application of the rule of linearity in chemical engineering functions: n...
azotropic systems.

p. 75 (Chemický průmysl... no. 2, Feb. 1966, part 1, p. 75)

Not in Index : (last number / accession / ...). Vol. 7, no. 2,
February 1966

PIJAR, A.

Measurement and regulation techniques as a subject of our faculties of chemical technology.

1. 596. (CHEMICKY PRUMYSL) (Praha, Czechoslovakia) Vol. 7, no. 11, Nov. 1958

50: Monthly Index of East European Accession (MIEA) LS, Vol. 7, No. 5, May 1958

PILAR, ANTONIN

CZECHOSLOVAKIA / Physical Chemistry. Thermodynamics. Thermo-
chemistry. Equilibrium. Physical-Chemical
Analysis. Phase Transitions.

B-5

.bs Jour : Dokl. Akad. Nauk SSSR, No. 10, 1958, 31668

.uthor : Antonin Pilar

.nst : -

.itle : Application of Linear Function Rule to Computation of
Azotropic Systems.

.orig Pub : Chem. promysl. 1957, 7, No. 2, 75-77.

.bstract : Considerations concerning the methods of graphical deter-
mination of vapor pressure and latent heat of evaporation
of binary and ternary azotropic systems are expressed.

Card 1/1

16

Z/009/60/000/01/032/038
E142/E235

AUTHOR: None Given

TITLE: New Books

PERIODICAL: Chemický průmysl, 1960, Nr 1, pp 38-40

ABSTRACT: The following books are reviewed:

"Examples of Chemical and Engineering Calculations I/1"

by A. Pilař, M. Ryba, Z Volák, V. Pechoč and

I. Koropečký; published by

SNTL, Prague 1959; reviewed by J. Nývlt, VÚAnCh.

"Technical Uses of Silicones" by V. Bažant, V. Chvalovský

and J. Rathouský; published by

SNTL, Prague, 1959; reviewed by J. Dvořák, Research

Institute for Macromolecular Chemistry.

"Chemical Analyses in the Polygraphic Industry" by

J. Borecký; published by

SNTL, Prague, 1959; reviewed by S. Lankaš.

"Survey of Organic Chemistry" ("Précis de Chimie

Organique") by V. Grignard; published by

Masson a spol., Paris, 1958; reviewed by V. Vesely.

Card 1/2

PILAR, A.

Pilar, A. Solution to the computation of the operating efficiency of mixers by means of nomograms. p. 148. CHEMICKY PRUMYSL. Praha. Vol. 5, no. 4, Apr, 1955.

SO: Monthly List of the East European Accession, (EEAL), LC. Vol. 4, no. 10, Oct. 1955. Uncl.

PIJAR, Antonin

"Industrial refrigeration equipment" by E. Dvorak, C. Cervena.
Reviewed by Antonin Pilar. Chem prum 13 no.5:264 My '53.

1. Vysoka skola chemicke-technologicka, Pardubice.

PIJAR, Antonin

"Physical principles of chemical engineering" by P. Grassmann.
Reviewed by Antonin Pilar. Chem prum 12 no.8:456 Ag '62.

1. Vysoka skola chemicko-technologicka, Pardubice.

PIJAR, ANTONIN

Zakladni operace a provozni zarizeni v chemicke vyrobe. [Vyd. 1.] Praha,

Statni pedagogicke nakl., 19(53). (Uc-bni texty vysokych skol) Vol. 3.

[Basic operations and operational equipment in chemical production Bibl., diagra.]

SO: Monthly List of East European Vol. 3, No. 2, 1954
Accessions, Library of Congress, February, 1954, Uncl.

PILAR, B.

Use of polyethylene blocks for nuclear reactor shielding.
Jaderna energie 6 no.5:176 My '60.

GANZ, V.; HAMMER, J.; PILAR, J.; PISA, Z.; ZEMPLENYI, T.

Working test with ECG recording during physical effort.
Vnitr. lek., Brno 1 no.6:423-426 June 55.

1. Ustav pro choroby obehu krevniho, Praha, Krc, reditel
prof. Dr. Kl. Weber, Ustav pro choroby obehu krevniho,
Praha-Krc.

(PHYSIOLOGY

working test, ECG eff. of phys. effort.)

(ELECTROCARDIOGRAPHY

in working test, eff. of phys. effort.)

(EXERCISES, effects

phys. effort on ECG in working test.)

PILAK, J.

MD

1 Heparin and the clearing reaction in atherosclerosis. T. Zemplényi, V. Feli, J. Podor, D. Reichl, and J. Pilak (Ustav pro choroby oběhu krveního, Prague). *Časopis Lékařů Českosl. 94*, 263-6(1965).--Intravenous administration of heparin (I) produced a significantly smaller clearing of alimentary lipemia in 55 atherosclerotic patients as compared with 42 normal subjects. The *in vitro* adds. of normolipemic (12-hr. starvation) serum from atherosclerotic patients to a mixt. of hyperlipemic serum from normals with I serum from normals inhibits the clearing reaction, as compared to control mixts. of normolipemic, hyperlipemic, and I serum, all from normal individuals. Only a min. amt. of I serum necessary for producing a clearing effect was used in order to increase the selectivity of the test. An artificial oil emulsion can be substituted for normal hyperlipemic serum in these expts., thus obviating the need for lipemic blood. It has been prepd. by emulsifying 1 ml. olive oil with 15 mg. crude lecithin in a 1:1 mixt. of phosphate buffer pH 6.9 with 5% NaOAc. This emulsion is dild. with saline, stabilised by the adds. of 0.5 g. human serum albumin, and emulsified once more. Heparinized serums were removed 15 min. after the intravenous administration of I to both normal and atherosclerotic subjects; normal serums had a significantly greater clearing effect on the emulsion than atherosclerotic serums. The differences between the normal and atherosclerotic subjects were found even in groups homogeneous by the criteria of age and sex. In all these expts. it is important to correct for the spontaneous clearing of the substrate (owing to other causes than heparinized serum) during the incubation. MHR is not a valid substrate. I. M. Hall

(4)

L 21109-66 EWT(1)/ETC(1)/EPP(n)-2/ENG(m) IJP(c) AT

ACC NR: AP5015926

SOURCE CODE: CZ/0055/65/015/006/0399/0406

AUTHOR: Pilar, J.; Sicha, M.

ORG: Faculty of Mathematics and Physics, Charles University, Prague

TITLE: Verification of the microwave method of measuring small changes in con-
centration of electrons in striated plasma ⁵⁹₈

SOURCE: Chekhoslovatskiy fizicheskiy zhurnal, v. 15, no. 6, 1965, 399-406

TOPIC TAGS: plasma resonance, electron distribution, microwave plasma, frequency band, plasma wave, traveling wave interaction, critical wavelength

ABSTRACT: A more detailed experimental verification of shorter wavelengths in a frequency band of 3 kMc was carried out. The method of measuring small changes in electron concentration in plasma by the high-frequency resonance method with an apparatus working in a frequency band of 3 kMc was verified. The authors stated that the initial relations of the given method are valid with sufficient accuracy even in this frequency band. The authors thank V. Vesely, Department of Electronics and Vacuum Physics of the Mathematical Physical Faculty of Charles University, for his valuable advice and aid in carrying out experiments. Orig. art. has: 3 figures, 6 formulas, and 2 tables. [Based on authors' abstract.] [NT]

SUB CODE: 20/ SUBM DATE: 11Nov64/ ORIG REF: 001/ OTH REF: 005/

Card 1/1 dda

PILAR, Josef

Experiences in periodic revision of product quality. Podn org
18 no.11: '89-492 N '64.

1. Tesla National Enterprise, Pardubice.

FILE, I.

The block signal system.

P. 236 (Železniční Technika) Vol. 5, No. 9, Sept. 1957, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACQUISITIONS (EEAI) LC. - VOL. 7, No.1, JAN. 1958

PILAR, K.

Conditions for a good signal system. p. 236.
ZELEZNICE, Prague, Vol. 4, no. 9, Sept. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
June 1956, Uncl.

PILAR, K.

"Railroad Transportation of Tomorrow." p. 215

"Further Experiences of our "Zavodchiks", Track Maintenance Men." p. 217 (Zeleznice,
Vol. 3, no. 9, 1953, Praha)

SO: Monthly List of ~~Russian~~ Accessions, East European Vol. 3, No. 3, Library of Congress, March 1954, Uncl.

IBLER, Zbynek, ins.; PILAR, Radovan, ins.

Power consumption standards in steam power stations. Energetika
Cs 12 no.12:622-627 D '62.

PILAR, Vl. (Ing.)

Vl. Pilar, "Zur Rauchgasrueckfuehrung im Generatorbetrieb," Energietechnik (Berlin), 7/10, October 1957, pp. 464-71.

The author is affiliated with the Gas Institute at Bechovice.

MIAR, V.

Work in the training center of the Ministry of Health.

1. 87 (Ministry of Health, Research Institute for Organization of Health Service)
Vol. 1, No. 2, Dec. 1987.

20: Monthly Index of East European Literature (MIEL) Vol. 6, No. 11 November 1987.

PILAR, Vaclav, MUDr.

Activity of a training station of public health schools.
Cesk. zdravot. 5 no.2:87-90 Feb 57.

1. Prednosta interniho oddeleni OUNZ Vrchlabi.
(PUBLIC HEALTH, educ.
train. station for students (Cs))

B/a Solid v. Mass...

Encl. abo

Radiant heat in fuel-gas practice. H. V. DING (Hefei a. U.S.A. 1949, pp. 394-403, cf. H., 1949, 1, 852).—The design and performance of various gas burners used in Western Europe and the U.S.A. are reviewed, and their applications to industry are discussed.
R. TAYLOR

Brit. Ab.

Brit. Ab. v. ...

Radiant heat in fuel-gas passages. H. V. Pilar (L'Espresso e L'Industria, 1949, 20, 304-403, cf. B., 1949, 1, 802). The design and performance of various gas burners used in Western Europe and the U.S.A. are reviewed, and their applications to industry are discussed.
R. Tauson.

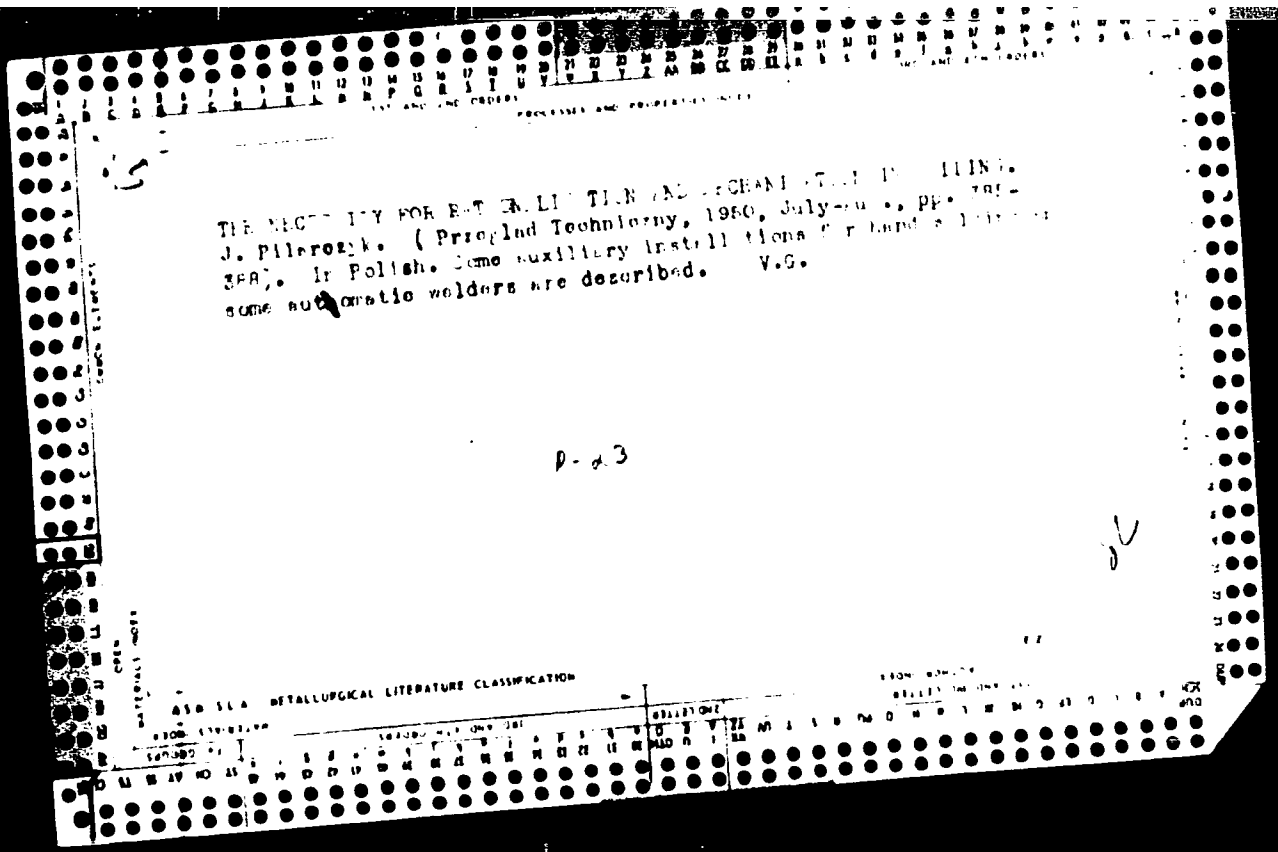
F

2415. INDUSTRIAL GAS APPLICATIONS OF INFRARED HEATING. Pilar, V. (Faliva a Voda, Dec. 1949, vol. 29, 294-403).
This paper is a survey of the many types of infra red burners and other gas equipment. The author discusses the advantages of radiant heating and describes symmetrical and asymmetrical burners, drying tunnels and radiant grillers. Electrical and gas equipment are compared from the point of view of efficiency.

(L)

PILAR-SVOBODA, B., dr.

Surgical treatment of jaw fractures. Chir. maxillofac. (Zagreb)
4 no.2:80-86 '64



FILARCZYK J.

Filarczyk J.

Filarczyk J., B. Sc. Tech. "Welding in the Six-Year Plan." (Spawalnictwo w ramach Planu 6-letniego). Przegląd Spawalnictwa, No. 3-4, 1950, pp. 41-42.

The general outline of the development of welding provided for in the Polish Six-Year Plan.

SO: Polish Technical Abstracts - No. 2, 1951

PILARCZYK, J.

Weldability of Steel K.52. J. Pilarczyk. (Rutnik, 1950, vol. 17, Sept. - Oct. pp. 321-329). (In Polish). The types of steel used for welded constructions, the difficulties encountered in welding them, and efforts to determine their weldability are outlined.

Immediate source clipping

PILARCZYK, J.

[Handwritten mark]

3433

668.14-162: 621.791.057

Pilarczyk J., Stoub P., Sniegowski K. The Welding of Heat-Resisting Steels.

POL. 3

Spawanie stali żaroodpornych. Przegląd Spawalnictwa. No. 2, 1954, pp. 28-31, 13 figs, 5 tabs.

2

The authors review the results of gas and arc welding on heat-resisting steels by means of ES34-18 electrodes of post and preheat manufacture, and ES18-8-8 electrodes. The experiments revealed that 1) the arc method, since it provides a weld of superior mechanical strength, is more suitable for welding KNS-12 heat-resisting steel; 2) joints made with the use of ES18-8-8 electrodes are only slightly less sound than joints made by using the more expensive type of ES34-18 electrode; 3) the resistance to high temperatures of welds made by either of these two methods is not inferior to that of the KNS-12 steel itself; 4) the strength of the welds is lower than that of the parent material, a fact which should, by introducing correction factors given in an accompanying table, be allowed for in the constructions.

[Handwritten initials]

PILNICKI, J.

"Trends in the Production of Auxiliary Materials for Welding", p. 26,
(PRZEGLAD SPAWALNICTWA, Vol. 6, No. 3, Aug. 1956, Warszawa, Poland)

SO: Monthly List of East European Acquisitions, (EIL), 14, Vol. 1, No. 1,
May 1956, Uncl.

PILARCZYK, J.



3785

621.791.75.036

Pilarczyk J., Siano J. Effect of Mn Content in Wire and MnO in Flux on Mn Content in Welds Made by the Shielded Arc Process MG

„Wpływ zawartości Mn w drucie i MnO w topniku na zawartość Mn w spoinie przy metodzie spawania łukiem krytym”. Przegląd Spawalnictwa. No. 11, 1954, pp. 237-246, 27 figs., 7 tabs.

Trials were made to determine the degree of migration of manganese from wire and flux into the welds made by the shielded arc process. For this purpose a number of welding wires and fluxes were prepared having a varying content of Mn and MnO. It was established that for welding low-carbon steel by the shielded arc process welding wires of average content of about 1.5 per cent of manganese and fluxes of about 20 per cent of MnO are the most suitable. Excessive quantity of MnO in fluxes is harmful by reason of the migration of a considerable part of the manganese into slag and penetration of the phosphorus into welds.

Handwritten initials or signature, possibly "D.P." or similar, with a circled "D" above it.

PILARCZYK, J.

021.791.058 : 020.178.3

370
Wytrzymałość zmęczeniowa połączeń spawanych. Przegląd Spawalnictwa No. 12, 1964, pp. 368-373, 18 figs., 4 tabs.

With a view to practical utilization, the article presents the most important results of experimental research on fatigue strength of welded structures. On the basis of technical literature from abroad and experimental results obtained by the Welding Institute in Gliwice directions are given for the engineering design of welded structures with reference to material and construction requirements and operating recommendations; errors to avoid are pointed out.

MG
Jaw

① JF
JF

PIARCZYK, J.

Trends in the development of welding in Poland. Tr. from the Polish.
p. 119.

ZVARACSKY SBORNIK Vol. 4, no. 1, 1955

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956

PILARCZYK, J.

"Trends in Welding in Poland", p. 2, (PRZEGLĄD SPAWALNICZY, Vol. 7, No. 1,
Jan. 1955, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EASL), IC, Vol. 3, No. 6,
May 1955, Uncl.

[Faint, mostly illegible text, possibly containing a list or report content]

PILARCZYK, J.

Welding in the Soviet Union. p. 246.

Vol. 7, no. 11, Nov. 1955

PRZEGLAD SPAWALNICTWA. Warszawa

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

18(5),25(1)

AUTHOR:

Pilarczyk, Józef, Engineer

SOV/125-59-10-7/16

TITLE:

The Present State and the Outlook for the welding Industry in Poland

PERIODICAL:

Avtomaticheskaya svarka, 1959, Nr 10, pp 61-66 (USSR)

ABSTRACT:

The article is a short account of the present state of the welding industry in Poland; after a rapid survey of developments up to now, for which the institut svarki (Institute of welding) has been chiefly responsible, the author proceeds to deal with the present position in the equipment field. Electric arc-welding was not introduced until 1949, and now there are 2 types of DC welding machines (250 and 500 amps), 2 types of welding transformers (300 and 500 amps), and a 1,000 amps welding transformer for welding tractors. Work on the modernization of the equipment is being carried out at the Institute of welding with a view to creating light-weight, high-efficiency, remote-control welding machinery. The position is not so satisfactory concerning the manufacture of welding tractors for arc-welding with the fluxes UT-1250 and iDSh-500, and much equipment and

Card 1/4

The Present State and the Outlook for the welding industry in Poland

SOV/125-59-10-7/16

assistance have been imported from the GDR and the USSR, particularly from the Institut elektrosvarki imeni Ye.O. Patona (Institute of Electric Welding imeni Ye.O. Paton). In the field of contact electric welding only 2 models of spot-welding machines have so far been built (20 kilovolt/amps); gas-welding was widely used in Poland before the war and manufacture of this equipment is now limited to one plant, while the problem of the production of automatic oxygen cutters is still being worked on. Oxygen, acetylene, welding wire and fluxes are largely of domestic origin and production is being stepped up: from 10 million m³ in 1945 to 40 million m³ in 1958 (oxygen, and from 2,000 tons in 1945 to 5,000 tons in 1958 (acetylene). There is a shortage of electrodes in the electric arc-welding industry, which will continue for another 3 years or so, there being at present no electrode factory in Poland, and the manufacture of fluxes is limited to certain types suited to the welding of low-carbon steel. welding processes invol-

Card 2/4

SOV/125-59-10-7/16

The Present State and the Outlook for the Welding Industry in Poland

ving the use of protective gases - argon and CO₂ - are still in their teething stages, particularly since the present domestic supplies of the gases are not pure enough for this purpose. Considerable progress has, however, been made in the training of welding experts and the raising of technical qualifications: this responsibility lay first in the hands of the Institute of Welding in Katowice, later with the Tsentr professional'nogo obucheniya (Center of professional training), and finally with the Ministry of Education. In the last 2 years a check of welders' qualifications has been carried out, as a result of which the standard has risen; in addition, about 250 engineers specializing in welding have graduated from polytechnic schools. A brief review is then given of various institutions connected with welding in Poland: the institute of welding, the first and for many years the only one in the country, founded in March 1945, and the sub-divisions of it in the experimental center at the Gdansk shipyards, the

Card 3/4

The Present State and the Outlook for the welding industry in Poland

SOV/125-59-1-7/16

Otdeleniye tekhnologii svarki v Zheleznodorozhnom institute (Department of Welding Technology at the Railroad Institute), and the Svarochnaya laboratoriya v institute stroitel'noy tekhniki (Welding Laboratory at the Institute of Construction Technology). The first-named, based on Gliwice and a member of the international institute of welding, concerns itself with the main, general problems of this sphere of industry, while the sub-divisions are engaged on more specialized, technical matters; there are also 5 departments of welding in 5 polytechnic institutes. In the near future the following main tasks are to be solved: the raising of the output of gas and fluxes, the modernization of welding equipment and the carrying-out of further, extensive research work.

ASSOCIATION: Institut svarki, g. Gliwitse, PNR (Institute of welding, town of Gliwice, Polish People's Republic)

SUBMITTED: April 27, 1959.
Card 4/4

PILARCZYK, J.

Training of welding engineers. p.65

PRZEGLĄD SPAWALNICTWA. (Stowarzyszenie Inżynierów i Techników Mechaników Polskich i Instytut Spawalnictw) warszawa, Poland. Vol.11, no.3, Mar. 1959

Monthly List of East European Accessions Index, (EAI) LC, Vol.1, no.6, June 1960
Uncl.

25622

P/036/61/000/008/001/002
D001/D101

1.230 1573

AUTHORS: Pilarczyk, Józef, Docent, Engineer, and Brózda, Jerzy,
Master of Engineering

TITLE: The influence of arc linear heat capacity on hardening
of steels of various carbon content within the sphere
of heat action

PERIODICAL: Przegląd spawalnictwa, no. 8, 1961, 201-204

TEXT: In this report the authors discuss the results of their investigations for ascertaining how arc linear heat capacity influences the mechanical properties of welded steel. This research was undertaken because of lack of "CTP" graphs applicable to steel made in Poland from which the structure and hardness of steels affected by heat can be estimated with sufficient accuracy. [Abstracter's note: The meaning of the "CTP" abbreviation is not revealed]. Mechanical properties of welds depend on the microstructure of metal exposed to heat during the process of welding, chemical composition of welded steel and the speed with which the metal cools down after welding.

Card 1/4

25622

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The influence of arc...

Cooling speed of the metal area adjacent to the weld can be expressed by the following equation:

$$w = \omega \frac{2\pi\lambda(T-T_0)^2}{q/v} \quad [^{\circ}\text{C}/\text{sec}]$$

where T=the temperature in $^{\circ}\text{C}$ at which the cooling takes place, T_0 = the temperature of the object in $^{\circ}\text{C}$, λ = heat conductance coefficient in cal/cm x sec x $^{\circ}\text{C}$, q = amount of heat put into the metal in cal/sec, v = welding speed in cm/sec, ω = the coefficient in cal/cm x sec x $^{\circ}\text{C}$, q = amount of heat put into the metal in cal/sec, v = welding speed in cm/sec, ω = the coefficient depending on the shape and size of the welded object. The amount of heat put into the metal per unit of time was calculated by the following formula:
 $q = 0.24 U \times I \times \eta$ cal/sec, where U = the arc voltage in V, I = welding current power in A and η = metal heating process efficiency coefficient. For calculation of the arc linear heat power q/v , the coefficient $\eta = 0.75$ was chosen for hand welding, and for automatic welding $\eta = 0.90$. The authors examined six sorts of steel, containing from 0.10 - 0.48% C, 0.32 - 1.06% Mn, 0.03 - 0.33% Si and 0.022 -

Card 2/4

25622

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The influence of arc ...

0.05% S and applied the following arc linear heat capacities: 750, 1,492, 2,113 and 3,729 cal/cm. In order to secure identical structural properties, all samples were annealed before welding. Welded samples were metallographically examined and their hardness measured by Vickers' method. Upon examination of obtained data, it was revealed that as the arc heat capacity diminishes, the hardness of steel affected by heat increases along with carbon content in it. As the hardness of the intermediate sphere should not exceed HV 300, for welding steel with higher carbon content, thicker electrodes and a current of higher intensity should be applied and at the same time welding speed reduced. Thicker steel tends to harden in the sphere of heat influence, therefore, in order to avoid this, the data obtained, should be multiplied by a suitable coefficient listed in a table. The article ends with a practical example on how to estimate the arc current intensity for fillet welding of a 20 mm thick steel sheet containing 0.4% C, with welding speed 7 m/hr (0.19 cm/sec), arc voltage $U = 28 \text{ V}$ and $\eta = 0.75$. There are 3 tables, 3 graphs, 8 photos and 6 references: 4 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows:

Card 3/4

25622

The influence of arc. .

I/O36/61/000/002/001/002
D001/D101

H. Sekiguchi, M. Inagaki: "Continuous Cooling Transformation Diagrams of Steels for Welding and their Application"; Guide to Weldability of Steels. American Welding Society, 1942.

ASSOCIATION: Politechnika Śląska (Silesian Polytechnical Institute), Gliwice.

Card 4/4

PILARCZYK, Jan, mgr inż.

The 18G2A steel susceptible to cold cracking during welding.
Przegl spaw 17 no.4:89-93 Ap '65

1. Welding Institute, Gliwice.

EMARCLYK, J., prof. 1922.

A declaration of the Welding Institute. Przegł. spec. Inż. 1922.
1922-159. Ja 1922.

1. Head, Welding Institute, Gliwice.

PILARCZYK, Jozef, doc., inz.; BROZDA, Jerzy, mgr., inz.

Influence of arc force upon the hardening of the heat affected zone
in steel with various carbon contents. Przegl spaw 13 no.8:201-204
Ag '61.

1. Politechnika Slaska, Gliwice.

STANLEY, Joseph, 1914-1974

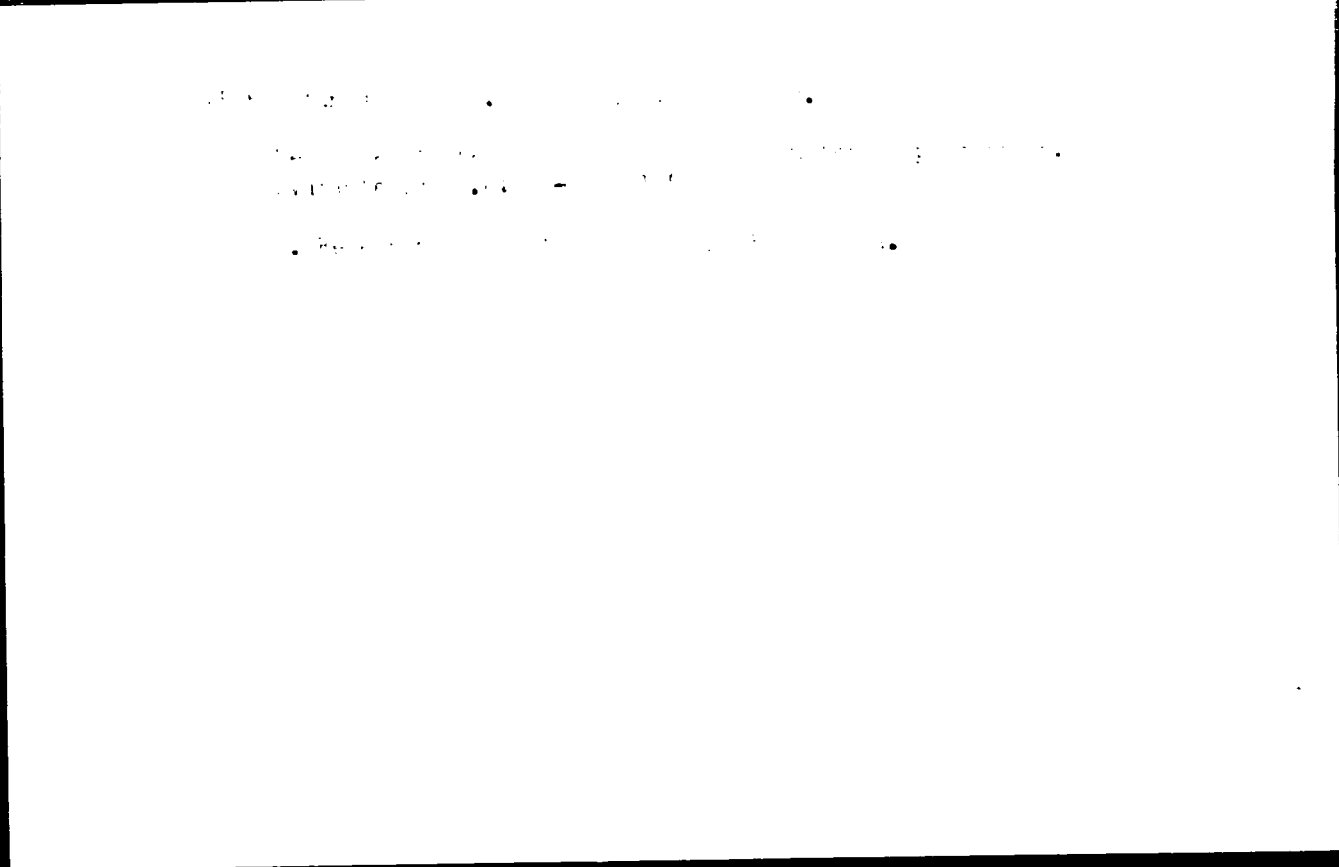
1914-1974

1914-1974

KOSNAC, Ludovit, inz.; PILARIK, Stanislav, inz.

Activity of some spray metal powders with water glass in
electrode jackets. Zvaranie 11 no.5:135-139 My '62.

1. Vyskumny ustav zvaracsky, Bratislava.



S/137/63/000/001/007/019
A006/A101

AUTHORS: Horvath, Stefan, Pilarik, Stanislav

TITLE: A method of producing metal powders for the manufacture of welding electrodes and filler wire

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 1, 1963, 36 - 37, abstract 10230 P (Czechosl. patent no. 101007, of September 15, 1961)

TEXT: In the method the metal powder is passivated by a passivating agent, introduced to the gas or liquid jet that pulverizes the molten metal. Solutions of HNO_3 , H_2SO_4 , alkalis or their vapors, and ammonia can be used as passivating agents. At high temperatures the passivating agents react practically instantly with the surface of the molten metal drops during the pulverization process. If a gas jet acts as a pulverizer (compressed air, nitrogen, etc) then the passivating agent, in the form of vapor, fine drops or gas, must be uniformly distributed in the pulverizing gas. The pulverizing gas pressure exceeds usually 3 atm; when Fe-Si powder is passivated it is e.g. equal to 8 - 15 atm. Such a Fe-Si powder, when used for electrode coatings, assures the production of compact built-up

Card 1/2

A method of producing metal powders for...

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A006/A101

metal without pores. The method is efficient and secures a high passivation degree.

Ye. Greyl'

[Abstracter's note: Complete translation]

Card 2/2

PHIA M. .; SWOT, N.

Induction furnaces. p. 14. 1954. (International review of
technickej literatury) Vol. 5, no. 3, Mar. 1954.

57-18: East European Accessions List, Vol. 5, no. 3, p. 101-102.

MROZINSKI, Stanislaw; CIESLINSKA, Krystyna; PILARSKA, Krystyna

Pulmonary embolism associated with changes in muscles of the left ventricle. Pol. tyg. lek. 20 no.30:1118-1120 26 XI '65.

1. Z I Kliniki Chorob Wewnętrznych Pomorskiej AM w Szczecinie (Kierownik: doc. dr. med. Karol Gregorczyk).

PIŁARSKA-MYCLEISKA, H.

PIŁARSKA-MYCLEISKA, H.

Temperature inversion in the region of Rabka, Ostowa, and Nowy Targ.

P. 5 (Gazeta Obserwatora) Vol. 10, No. 9, Sept. 1957, Warszawa, Poland.

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. VOL. 7, NO. 1, JAN. 1958

PIEŁKAI, ...; ...

Production of springs for the Katowice Railroad Rolling Stock Repair Works.
p. 122.

PIEŁKAI, ...; ... Warszawa, Poland, Vol. 10, no. 4, Apr. 1958.

Monthly List of East European Accessions. B.I., 10, Vol. 8, no. 9, September, 1958.
Incl.

FILARSKI, Jan, inż.

Transformer ignition plug for initiating explosions in
enclosures of fireproof devices. Przegl gorn. 20 no.16.
Suppl.:Biul Glow inst gorn 14 no.3:34-35 '64.

P/528/61/001/000/007/007
D204/D307

AUTHORS: Sokolowski, Janusz and Pilarski, Zenon
TITLES: The selective deacetylation of α -acetyl- α -
2,3,4,6-tetra-O-acetyl-D-glucopyranosyl- β -
aminobenzene (A) by means of amines
SOURCE: Danzig. Wyższa Szkoła Pedagogiczna. Zeszyty
Naukowe. Matematyka, fizyka, chemia, v. 1,
1961. Danzig, 1962, 107 - 109

TEXT: The present study was carried out in view
of the difficulty in deacetylating selectively O-acetyl groups
in pentaacetyl- α -glucoside and similar compounds. The authors
attempted to deacetylate A with stoichiometric quantities of
aniline, ammonia, cyclohexylamine, dimethylamine, and piperi-
dine, at temperatures varying from 20 to 65°C and over periods
of 1 to 48 hours. The procedure consisted of preparing methano-
lic solutions of pentaacetyl- α -D-glucosyl- β -aminobenzene and the
primary or secondary amine (in amounts exceeding by 5% those

Card 1/3

The selective deacetylation ...

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2204/0307

calculated for the deacetylation of O-acetyl groups), maintaining the mixture at the set temperature for the required length of time, and distilling off (at room temperature and 15 mm. Hg) the solvent and the unreacted amine. The dry residue was then analyzed by paper chromatography, using water at 20°C as the nonstationary phase. N-acetyl-D-glucoside and a small quantity of N-D-glucosyl-4-amino-azobenzene were found. The optimum results were attained with dimethylamine (~98% of N-acetyl-D-glucoside) over 9 hrs at 20°C; completely negative results were obtained with aniline. In general nonaromatic amines and ammonia attack the O-acetyl groups in preference to the N-acetyl, although complete selectivity was not achieved in any instance. The rate of deacetylation increased with temperature and with the basic strength of the amine, suggesting a nucleophilic mechanism of the rupture of N-acetyl and O-acetyl bonds. Oxidation of the deacetylation products with sodium metaperiodate demonstrated the existence of a pyranosidic ring in N-acetyl-D-glucoside. There is a table.

ASSOCIATION:

Katedra Chemii Organicznej Wyższa Szkoła

Card 2/5

The selective acetylation ...

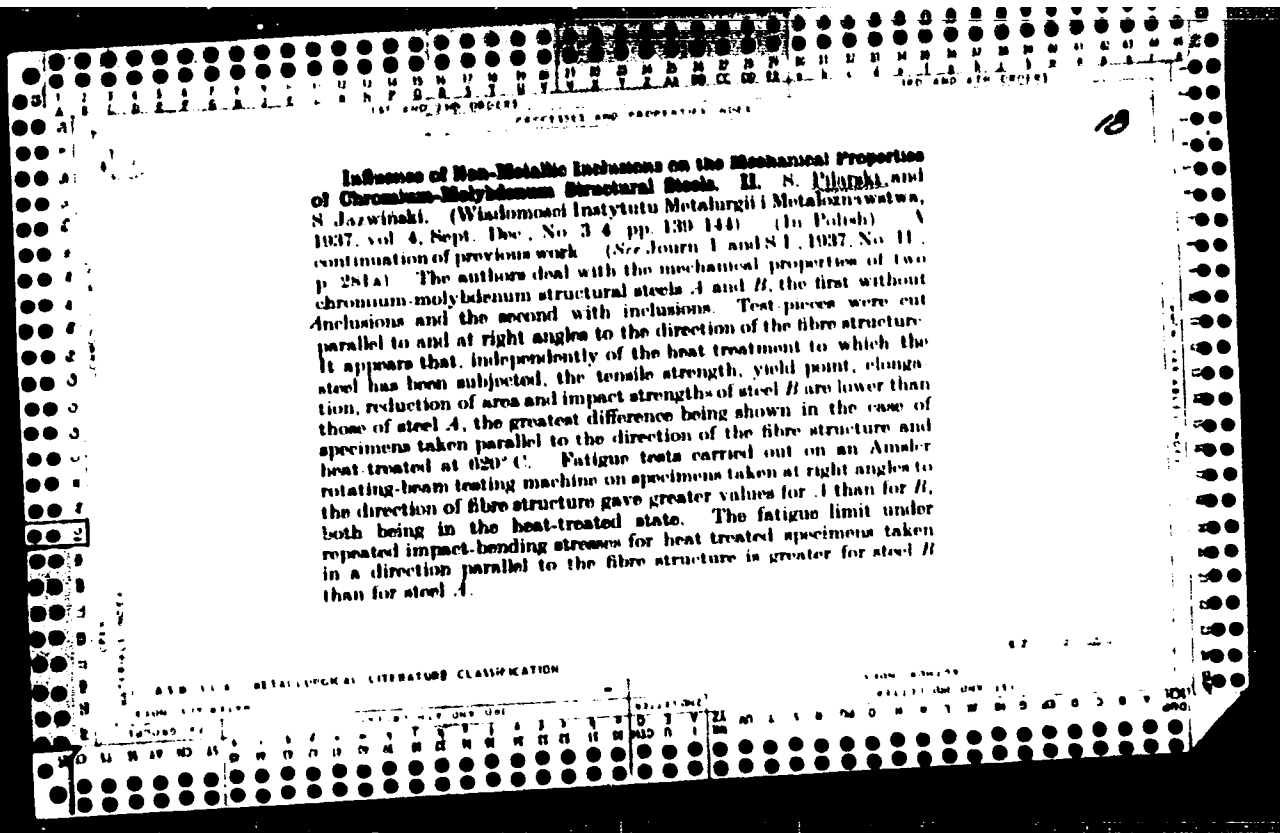
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3204/D307

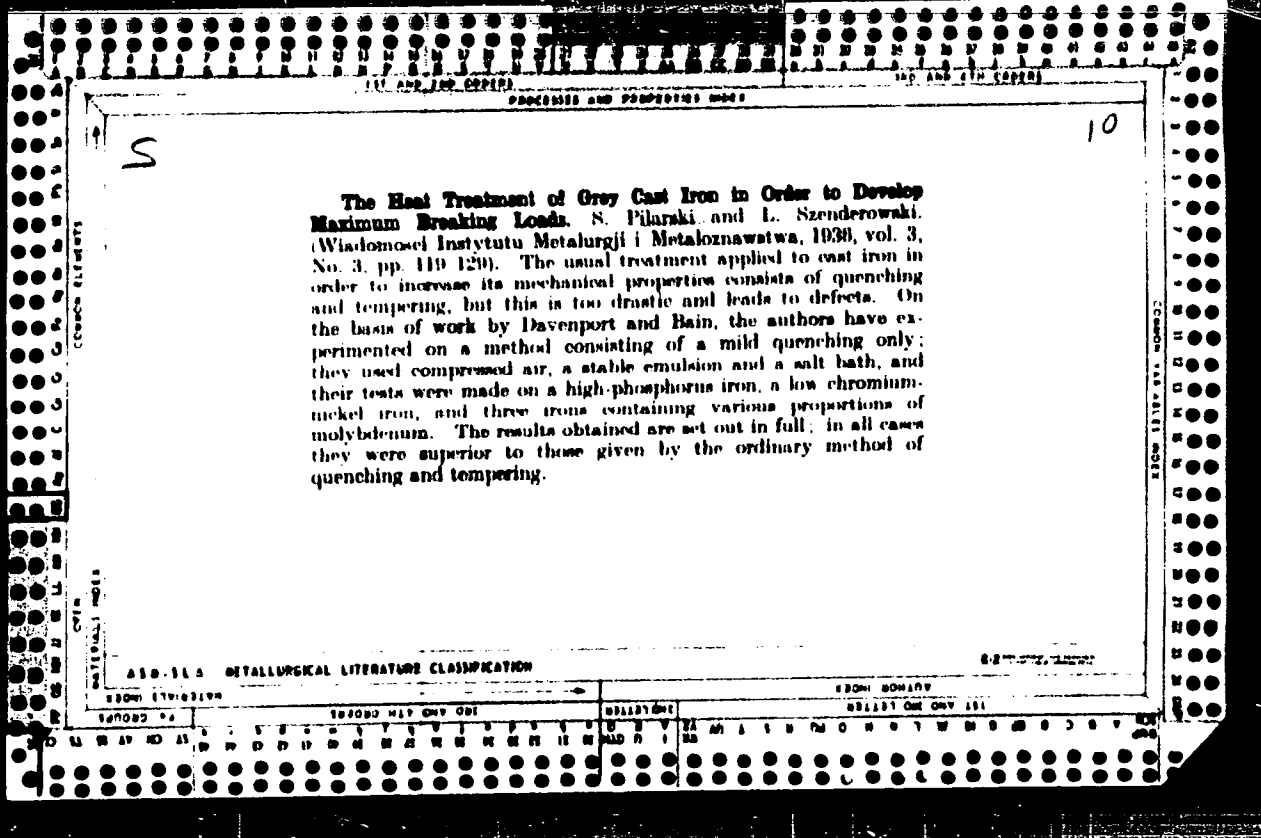
pedagogicznej, Gdańsk (Department of
Organic Chemistry, Higher School of
Education, Gdańsk)

SUBMITTED:

June 6, 1961

Card 3/3





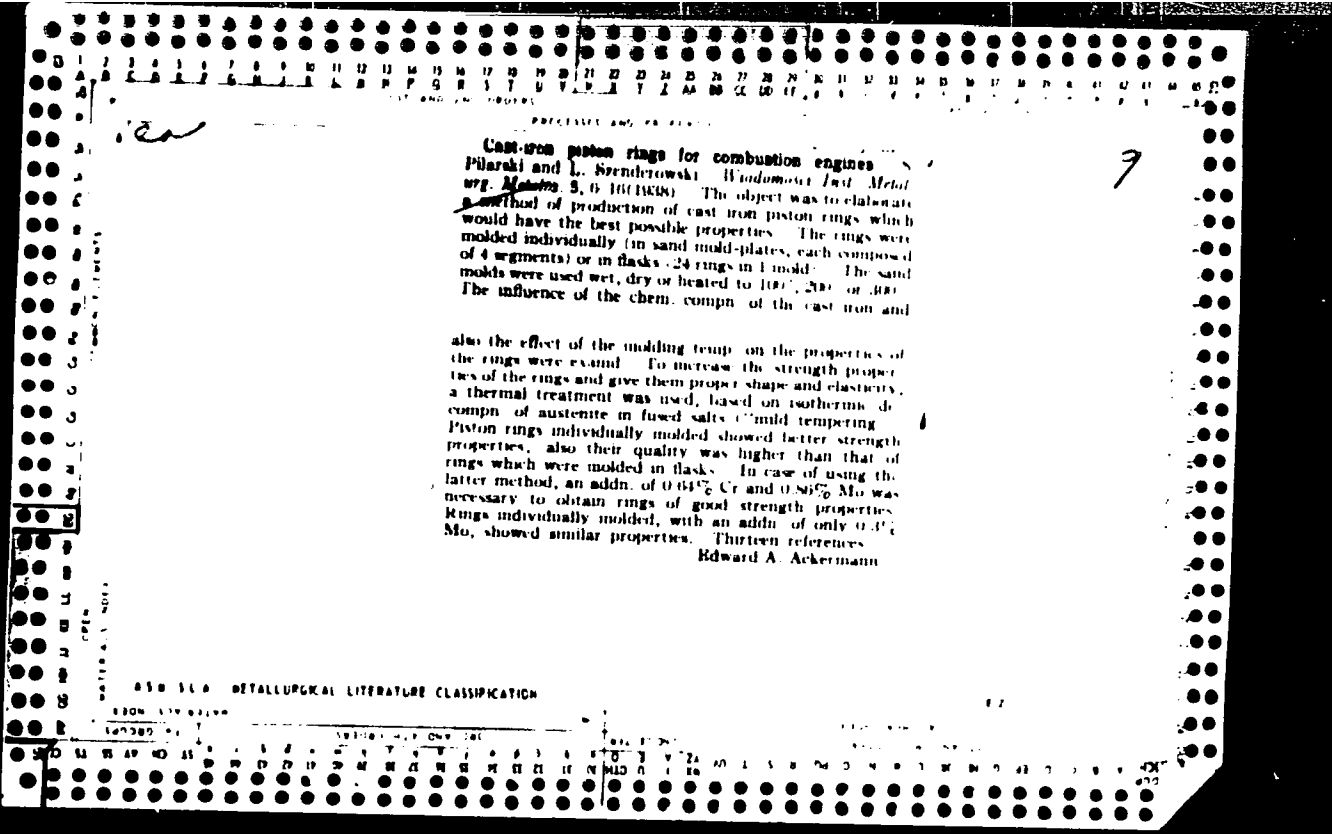
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THE HEAT TREATMENT OF GREY IRON. S. Pilarska and L. Szenderowski
(Wiadomości Instytutu Metallurgii i Metaloznawstwa, 1938, vol. 5,
No. 3, pp. 94-103). (In Polish). The authors describe an in-
vestigation of the effect of heating specimens of grey cast iron
containing small percentages of chromium and nickel in a salt
bath at temperatures between 250° and 700°C. and quenching in
water. They discuss the mechanical properties and the micro-
structure of the quenched specimens.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM DIVISION	SECTION	FROM	TO
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89	90	91	92
93	94	95	96
97	98	99	100



1 Isothermal treatment of gray pig iron. S. Jilarski and
 2 J. Stenclowski. *Wielkosci Met.* **17**: Metal
 3 **9**, 191 (1954) in French. *Met. Sci. J.* **12**: 199.
 4 The authors based their study upon the presumption that
 5 gray pig iron should behave during an isothermal treatment
 6 similarly to steel because its chemical composition and structure
 7 are similar to those of a corresponding steel, the only
 8 difference being a larger content of nonmetallic inclusions
 9 (graphite, etc.). Six kinds of gray pig iron were examined. A
 10 table gives their composition. They were subjected to iso-
 11 thermal treatment in a salt bath, the temp. of which was
 12 270-700° up to 700°, a mixt. of 40% NaNO₂ and 60%
 13 KNO₃ was used, above 700° a mixt. of 30% KCl

14 40% NaCl, 20% K₂SO₄, and 20% Na₂SO₄ was em-
 15 ployed. After the samples were removed from the bath
 16 and cooled, they were subjected to mech. tests, whereby
 17 their bending strength and Brinell hardness were deter-
 18 mined. Metallographic investigations were also performed. The
 19 isothermal treatment of the tested pig irons gave favorable re-
 20 sults. In all cases, with the exception of phosphoric pig
 21 iron, the strength properties increased remarkably. The
 22 isothermal treatment enables also the obtaining of improved
 23 qualities of the concerned pig iron for a certain antirust
 24 coating has a deciding effect upon the final result and upon the
 25 properties of the improved pig iron. The best results were
 26 obtained at 400° or 600°. The results obtained by using a
 27 bath, the temp. of which was 700°, were in all cases less
 28 favorable. It can be expected that in future isothermal
 29 treatment will have a wide application. L. V. A.

