

LILICH, L.S.; OVTRAKHT, N.V.

Solubility in the systems $\text{Ca}(\text{ClO}_4)_2 - \text{NaClO}_4 - \text{H}_2\text{O}$ and $\text{Cd}(\text{ClO}_4)_2 - \text{NaClO}_4 - \text{H}_2\text{O}$ at 25°C . Vest. LGU 20 no.10:116-119 '65. (MIRA 18:7)

OVTSYN, N.K., kand.tekhn.nauk; VAREMYSHNEV, V.M., inzh.

Shuttle shock absorber used on automatic looms. Tekst. prom.
18 no.9:72 S '68. (MIRA 11:10)
(Looms)

OVSYANNIKOVA, Ye.P.; CHERNOBYL'SKIY, V.N.

Raising the qualifications of management cadres of the municipal economy. Gor.khoz. Mosk. 29 no.12:24-25 D '55. (MLBA 9:3)
(Moscow--Municipal services--Study and teachnig)

OVTEN, Leonid Antonovich, polkovnik; KREKSHIN, N.A., podpolkovnik, red.;
MYASNIKOVA, T.F., tekhn. red.

[How to conduct tactical drill exercises]Kak provodit' katiko-
stroevye zaniatia. Moskva, Voenisdat, 1962. 44 p.

(MIRA 16:2)

(Russia--Army--Infantry--Drill and tactics)

ALTSYBERG, A.I., BOKHAROV, V.I., ZHUKOV, N.V., 1967, HVA, 11, 211.

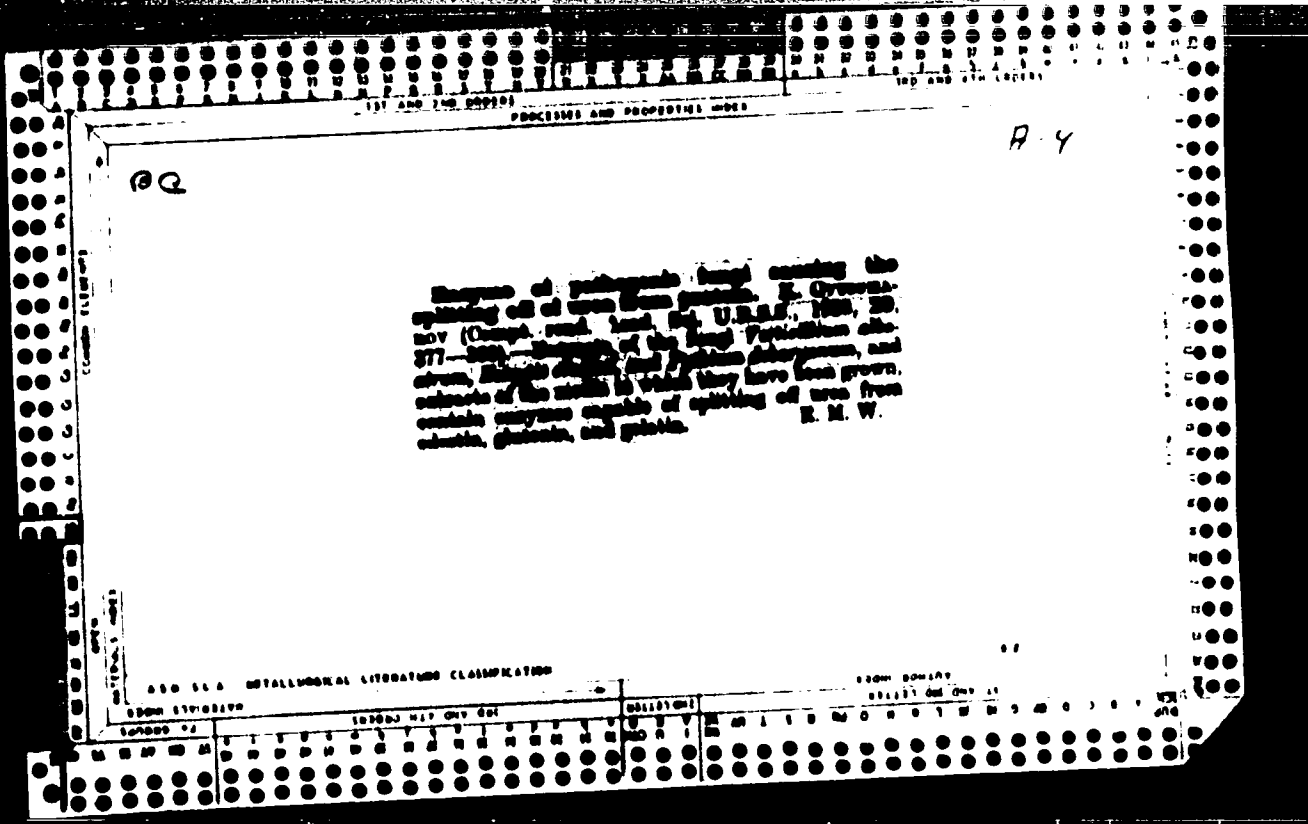
has equilibrium and thermodynamic properties. The system
sec-butyl alcohol - water. Chem. Abstr. 68: 12, 211, 1967.
My 1964.

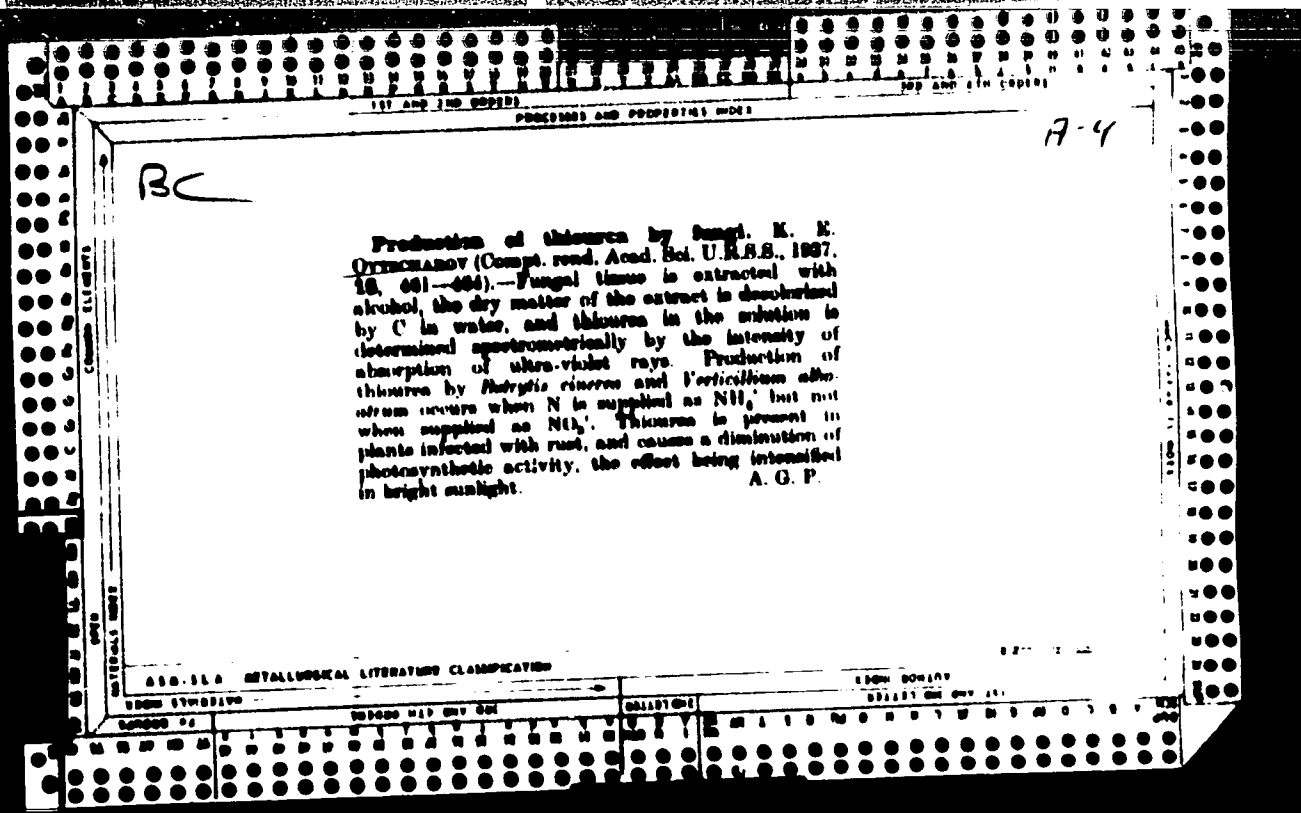
Leningradskiy gosudarstvennyy universitet imeni Chkhikadze
submitted July 6, 1967.

OVTSYN, N.K.

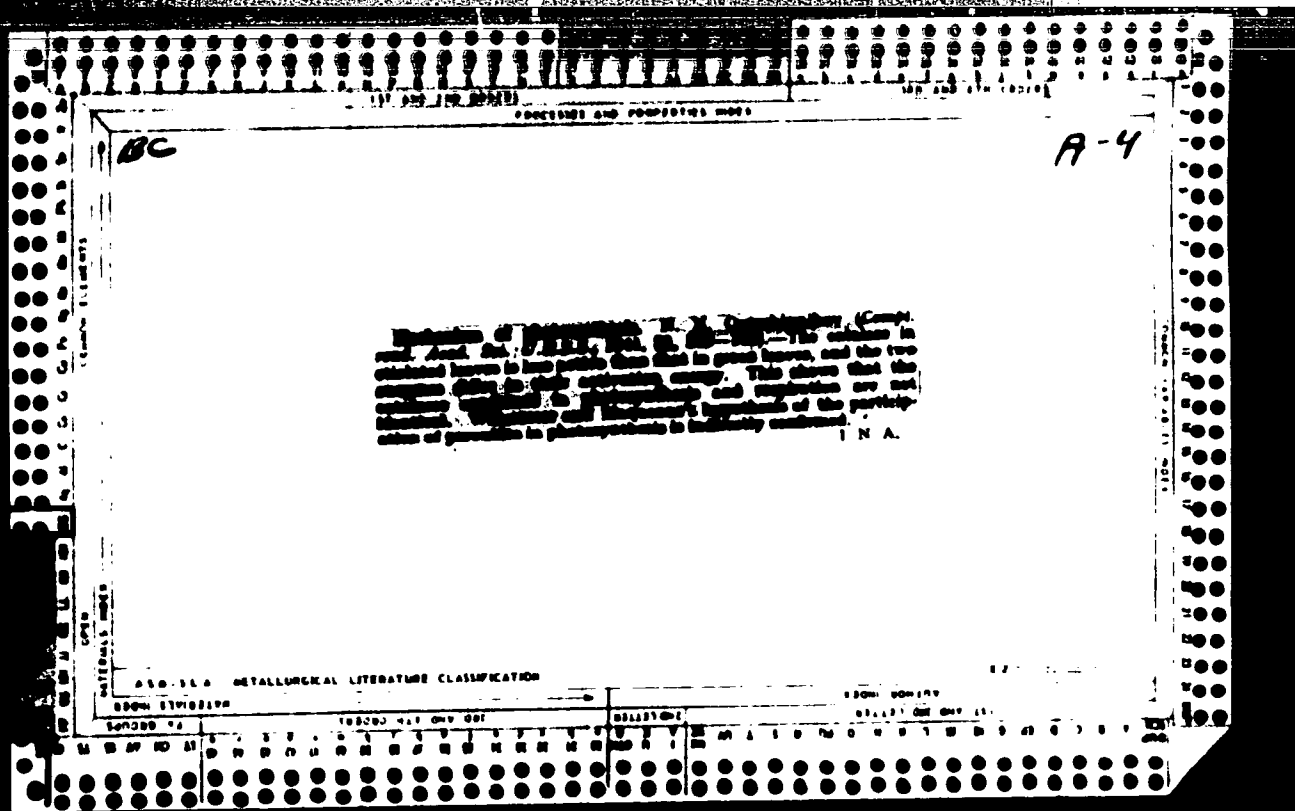
Reducing the warp breakage on looms. Izv.vys.ucheb.zav.; tekhn.-
tekst.prom. no.5:103-108 '62. (MIRA 16:11)

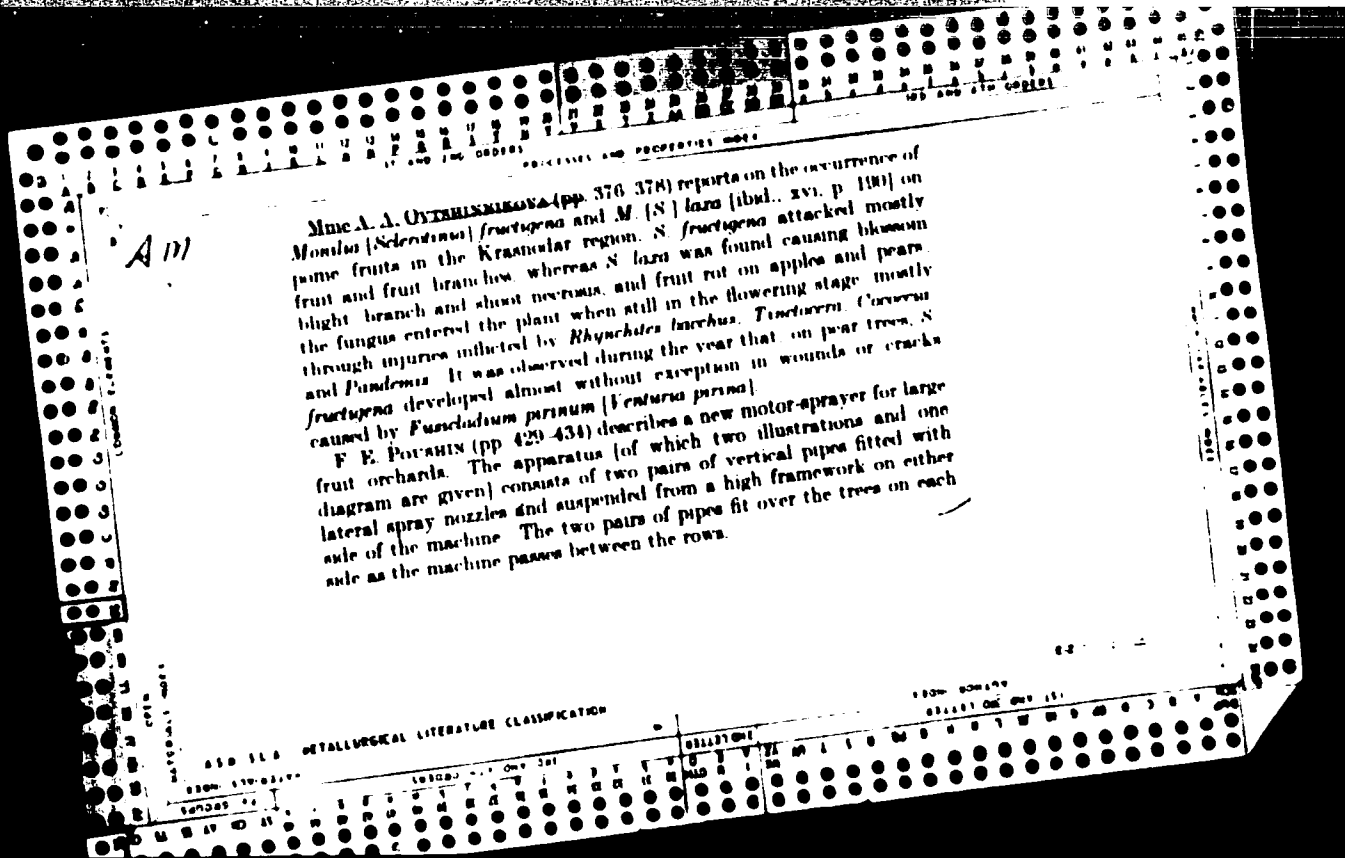
1. Ivanovskiy tekstil'nyy institut imeni M.V.Frunze.
(Weaving)

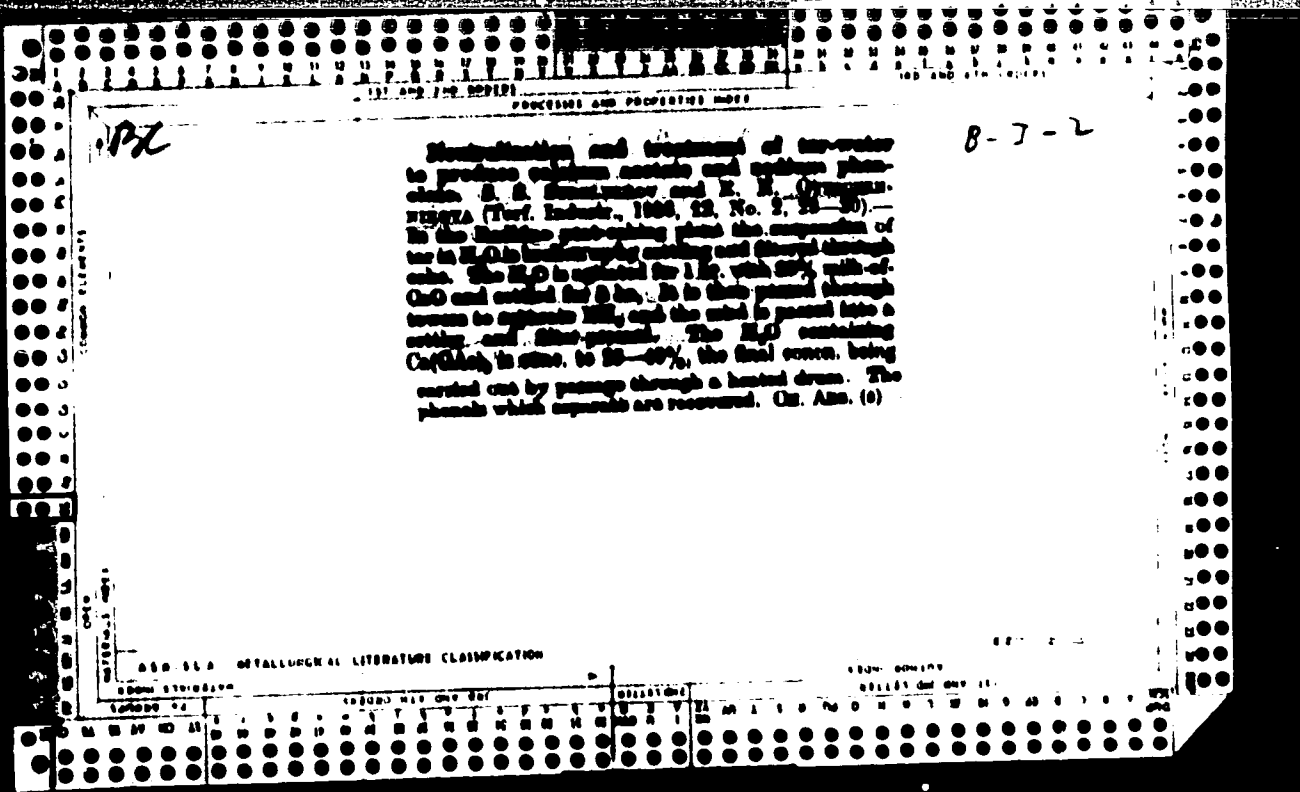


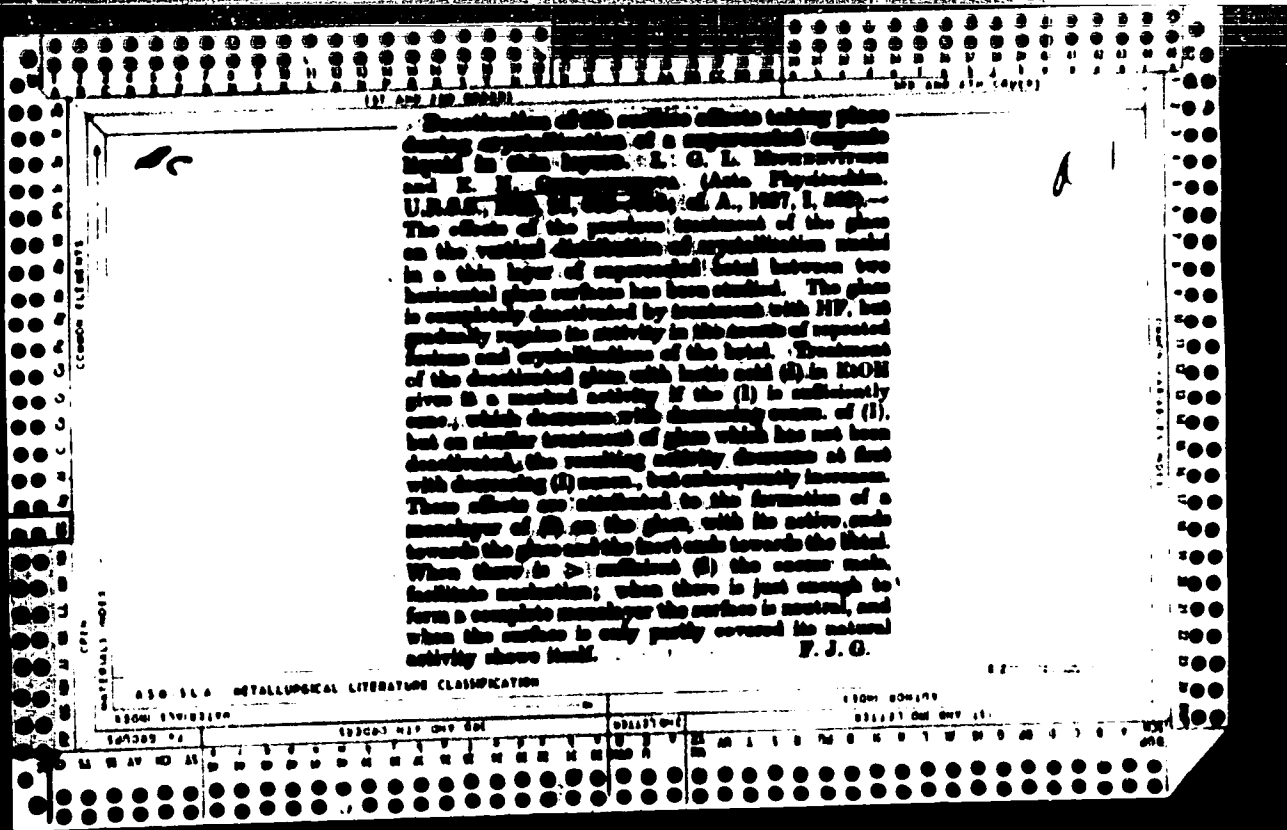


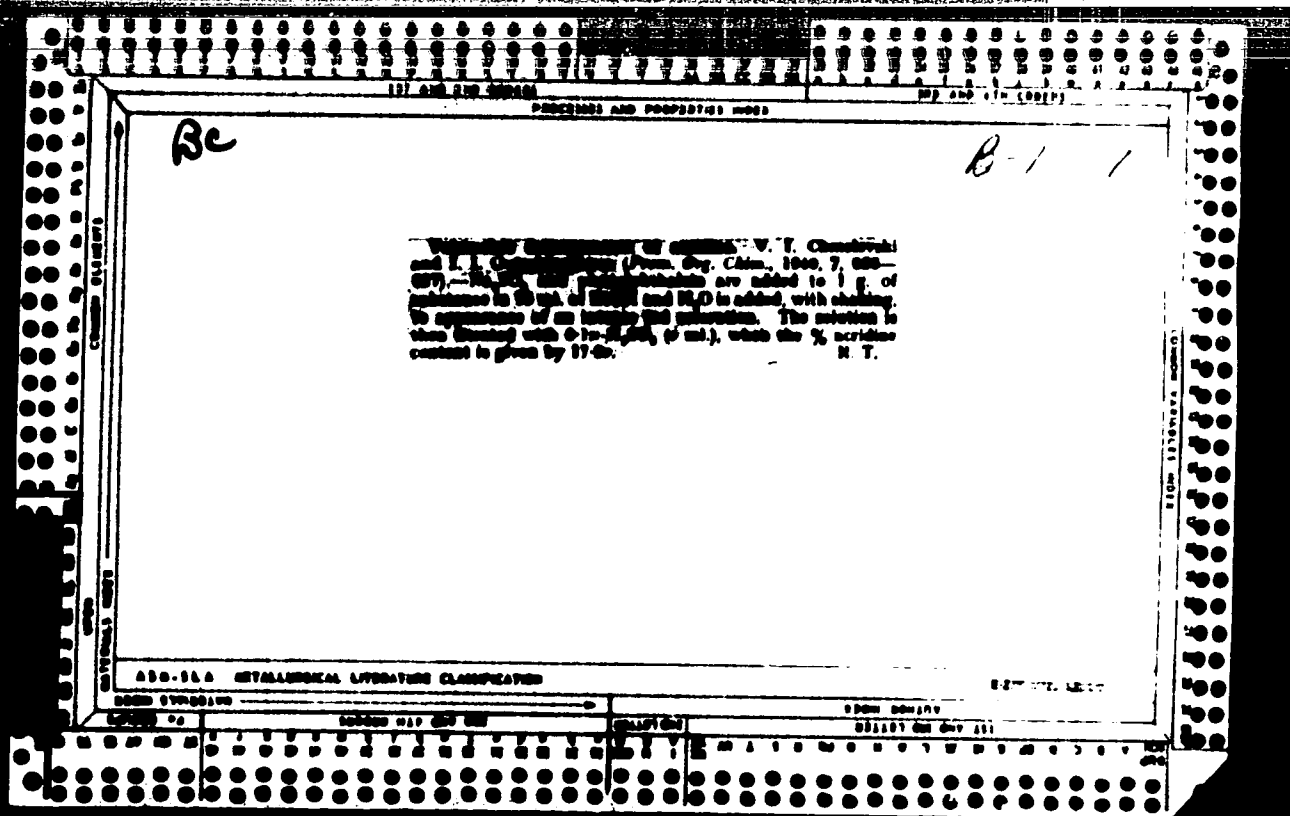
OVTSCHAROV, K.
E. SUCHORUKOV, CR, 1938, 18, 597-602

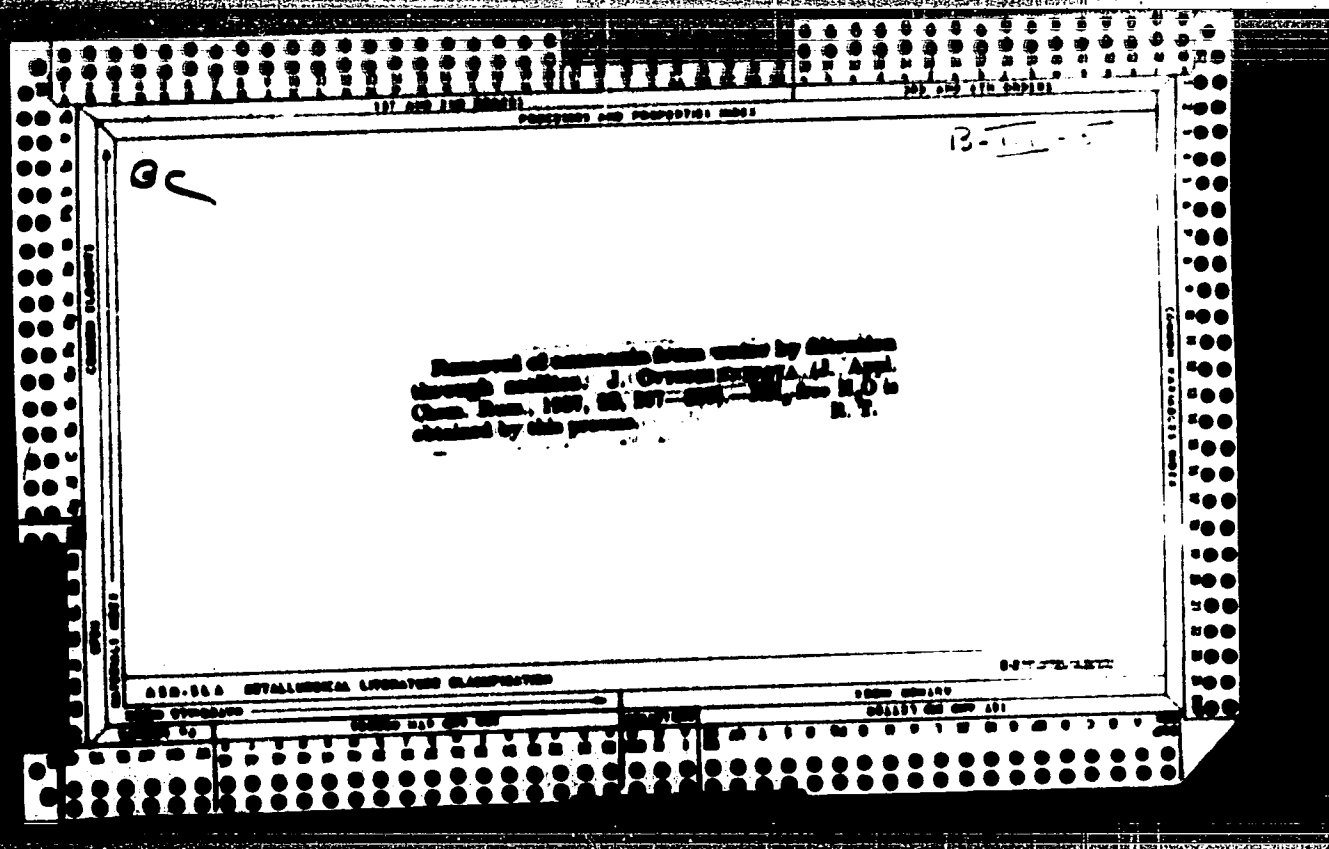


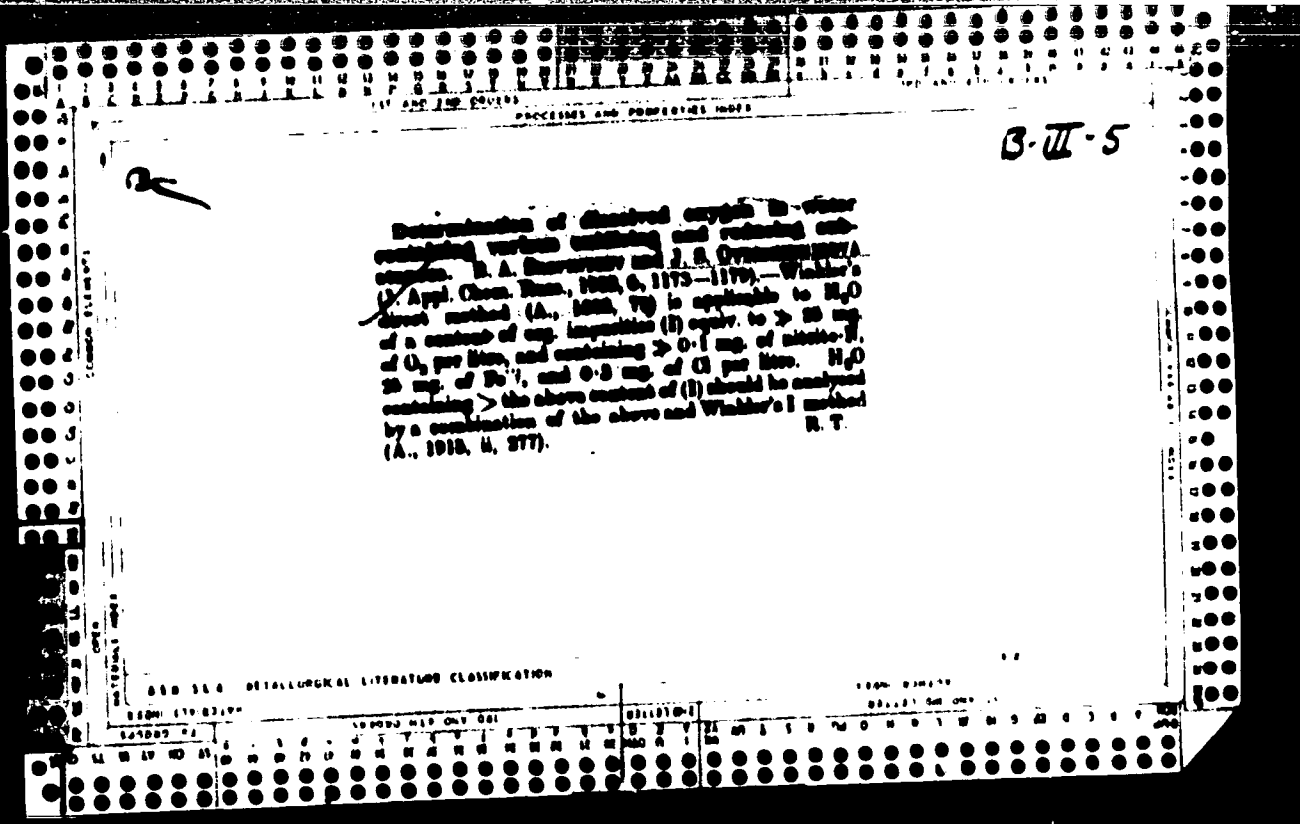












OVTSYN, M.K.

Determining the ... data ... the ...
me ... izv. ... ob. ...; ...; ...
... ..

1. Ivan

OVTSYN, N.K., kand.tekhn.nauk

Intermittent and continuous warping. Tekst.prom. 21 no.7:30-32
Jl '61. (MIRA 14:8)
(Warping machines)

OVTSYN, Nikolay Konstantinovich; VARENYSHEV, Viktor Mikhaylovich; ZHUROV, Ivan Ivanovich; IVANOV, P.P., red.; PANKRATOV, A.I., tekhn. red.

[Repair of automatic "AT" looms] Remont avtomaticheskikh tkatskikh stankov tipa "AT". Ivanovo, Ivanovskoe knizhnoe izd-vo, 1960. 142 p.
(MIRA 14:7)

(Looms—Maintenance and repair)

OVTSYN, N.K.; VARENY SHEV, V.M.

Modernization of the ATK-100 loom. Nauch.-issl.trudy IvNITI 23:49-65
'59. (MIRA 14:4)

(Looms)

OVTSYN, N.K., kand.tekhn.nauk; VARENYSHEV, V.M., inzh.

Trends in the modernization of automatic looms. Tekst.prom. 19
no.4:37-43 Ap '59. (MIRA 12:6)
(Looms)

CVTSYN, N. K.

Cand. Test. Sci.

Dissertation: "The role of the Soviet Union in the development of the world economy" (Moscow, 1957).
Inst. of Economics.

CC: Vecherneya Moskva, Oct, 1957 (No. 10) (p. 107-108)

ZOREV, N.N., doktor tekhn.nauk; TASHLITSKIY, N.I., kand.tekhn.nauk;
KUCHMA, L.K., kand.tekhn.nauk; VERSHINSKAYA, A.D., inzh.;
OVUMYAN, G.G., inzh.; ISAYEV, A.I., doktor tekhn.nauk; KIRILLOVA,
O.M., kand.tekhn.nauk; KATSHEL'SON, V.Yu., inzh.; LAPIN, N.A.,
kand.tekhn.nauk; FEDOROV, N.M., inzh.; CHERNYI, A.P., inzh.;
MOROZOV, N.A., inzh.; DOGAK, N.S.; ANDREYEV, G.S., kand.tekhn.nauk;
MIKHAYLENOK, Ye.I., kand.tekhn.nauk; MAKAREVICH, B.K., kand.tekhn.
nauk; YEREMIN, N.I., kand.tekhn.nauk; YERMOLOV, I.M., inzh.;
UNKSOV, Ye.P., doktor tekhn.nauk, prof., red.; SOBOLEVA, G.N.,
red.isd-va; CHERNOVA, Z.I., tekhn.red.

[Engineering problems in the manufacture of heavy machinery]
Nekotorye voprosy tekhnologii tiazhelogo mashinostroeniia. Moskva,
Gos.nauchno-tekhn.isd-vo mashinostroitel'noi lit-ry. Pt. 2 [Metal
cutting and quality control of parts] Obrabotka metallov resaniem
in kontrol' kachestva detalei. 1960. 173 p. (Moscow. Tsentral'nyi
nauchno-issledovatel'skii institut tekhnologii i mashinostroeniia.
[Trudy], vol.99). (MIRA 13:8)

(Machinery industry)
(Metal cutting)
(Quality control)

OVUMYAN, G. G. Cand Tech Sci -- "Study of the technology of cutting teeth ^{with} ~~with~~
^{milling} gear cutters." Mos. 1961 (Min of Higher and Secondary Specialized Education
RSFSR. Mos Machine Tool and Instrument Inst im I. V. Stalin). (KL, 4-61, 199)

218

9/122/66/000/000/015/015/00
A161/A021

AUTHORS: Isayev, A.I., Doctor of Technical Sciences, Professor; Ovumyan,
G.G., Engineer

TITLE: The Dynamics of the Cutting Process With End Mills

PERIODICAL: Vestnik mashinostroyeniya, 1960, No. 9, pp. 67 - 70

TEXT: The process has been studied at TsNIITMASH under the supervision of the authors. A special dynamometer (Fig. 1a) had been designed by A.F. Zabrodin for torque measurements, provided with ribs between the openings in the casing (Fig. 1b). The ribs are placed at an angle to the casing axis to increase rigidity. Twist deformation causes compression of carbon transducers (5) by brackets (1) and (2) thus changing the current intensity in the resistance circuit. The end mill in holder (3) is attached by bolts (4). Current is taken off the rotating casing by carbon brushes and copper rings. The transducers (5) are connected in parallel so as to make possible a compensation of currents forming in them from bending deformation. The effect of forces P_x , P_z and P_y (Fig. 2) on the torque readings has been studied, and it has been stated that only the effect of forces in points (2) and (4) (Fig. 3) disturbed the resistor bridge balance, but the effect was slight and easily calculated because of its periodic nature. In

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A161/A026

The Dynamics of the Cutting Process With End Mills

the rear edge with the metal being milled. There are 9 figures and 1 table.

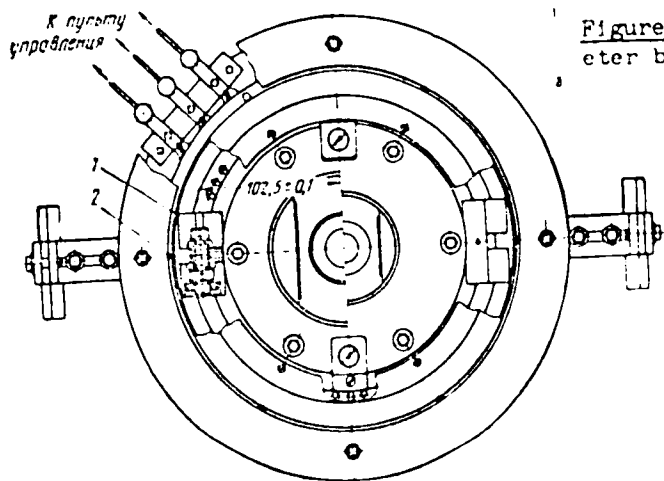


Figure 1a: Schematic diagram of dynamometer by A.F. Zabrodin



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ADAM, Ya.I.; OVUMYAN, G.G.

High-module shavers. Stan.1 instr. 32 no.12:34-35 p. 12.
(MIRA 14:12)
(Metal-cutting tools)

OVUMYAN, G.G.

Form milling of hardened steel. Stan.1 instr. 32 no.10:32 0
'61. (MIRA 14:9)

(Milling machines)

ISAYEV, A.I., doktor tekhn.nauk, prof.; OVUMYAN, G.G., inzh.

Investigating technological processes in cutting gears with pin-
type involute gear cutters. [Trudy] TSNITMASH 102:58-90 '61.

(MIRA 14:10)

(Gear cutting)

RODOV, A.S., inzh.; OVUMYAN, G.G., kand.tekhn.nauk; BULATNIKOV, V.S.;
ADAM, Ya.I.

Attachment for shaving on gear-milling machines. Vest.mashinostr.
42 no.8:72-73 Ag '62. (MIRA 15:8)

(Milling machines--Attachments)

OVUMYAN, G.G.; ADAM, Ya.I.

Single-turn hob cutter for machining hardened gear wheels.
Stan.1 instr. 33 no.12:29-30 D '62. (MIRA 16:1)
(Gear-cutting machines)

SIDORENKO, Aleksandr Konstantinovich, inzh.; ADAM, Yakov Isaakovich,
kand.tekhn.nauk; OVUMYAN, Gagik Gaganovich, kand.tekhn.nauk;
GINZBURG, Ye.G., kand.tekhn.nauk, rezensent; RIKBERG, D.B.,
red.; GORNOSTAYPOL'SKAYA, M.S., tekhn.red.

[Manufacture of large-tooth gears; experience of the Novo-
Kramatorsk Machinery Plant named after Stalin] Proizvodstvo
krupnykh zubchatykh peredach; opyt Novo-Kramatorskogo mashino-
stroitel'nogo zavoda im. Stalina. Moskva, Mashgiz, 1961.
152 p. (MIRA 15:2)

(Kramatorsk--Gearing)

OVUMYAN, G.G.

Simple design of end mills. Stan. 1 instr. 32 no.4:23-24 A; '61.
(MIFA 14:3)

(Metal-cutting tools)

ADAM, Yekov Isaakovich; OVUNYAN, Gagik Gegamovich; KALIKA, L.TS., inzh.,
retsensent; SEMIROVSKIY, E.I., inzh., red.; YAKOVLEVA, V.I.,
red.isd-va; KL'KIND, V.D., tekhnred.; SOKOLOVA, T.F., tekhnred.

[Manual for operators of gear-milling machines] Spravochnik
suboreza-frezerovshchika. Moskva, Gos.nauchno-tekhn.isd-vo
mashinostroit.lit-ry, 1961. 271 p. (MIRA 14:4)
(Gear cutting)

CVUMYAN, G. L.

PLANS FOR RESEARCH AND DEVELOPMENT

Source: Technical Report, Institute of Technical Sciences, Academy of Sciences of the USSR, Moscow, 1960. 110 pages. 150 copies printed.

Sponsoring Agency: Scientific Research Institute of Technical Sciences, Academy of Sciences of the USSR, Moscow, 1960. 110 pages. 150 copies printed.

Author: I. P. Zhukov, Doctor of Technical Sciences, Professor, Managing Ed. for Literature on Heavy Machine Building, Institute of Technical Sciences, Academy of Sciences of the USSR, Moscow, 1960. 110 pages. 150 copies printed.

Card V/6

CONTENTS: The book contains a summary of work conducted by the personnel of the Institute in the field of mechanical engineering and quality control of parts. Included is a discussion on the correct combination of design, tool, feed, and speed in cutting with various types of the machine tool. Also considered are the development of machining methods for rough and semi-finishing production, and the application of diamond devices for fine structure and measurement of wall thickness. So personalities are mentioned. References follow name of the chapters.

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Ch. II. Development of Efficient Cutting Methods and Methods of Improving the Mechanisms of Operation of Machine Tools in Heavy-Machinery Plants [Serey, S. I., S. I. Tashlyk and A. I. Egorov, Candidates of Technical Sciences, Engineers, and A. G. Orlov, Engineer] 3

Card V/6

Ch. III. The Development and Design for New Tool Materials [Zotov, I. S. and A. I. Lazarev, Doctor of Technical Sciences, I. I. Kabanov and V. I. Kravtsov, Candidates of Technical Sciences, Techn. School Grad. Engineer] 9

Ch. IV. New Designs of Cutting Tools for the Heavy-Machinery Industry [Lapin, S. A., Candidate of Technical Sciences, A. D. Verbitskiy, M. P. Petrov, A. F. Chernyy, Engineers] 9

Ch. V. Basic Trends and Some Results of Investigations of the Machined Surface Layer [Serey, S. I., S. I. Tashlyk, M. P. Petrov, Engineers] 10

Ch. VI. Some Results of Work on the Improvement of Manufacturing Processes in the Heavy-Machinery Industry [Serey, S. I., S. I. Tashlyk, Engineers, G. I. Anisimov, I. I. Mikhaylov, S. I. Kuznetsov, Candidates of Technical Sciences] 11

PART II. QUALITY CONTROL OF PARTS

Ch. I. Acoustic Flow Detection in Stripping for Quality of Metal [Ferman, S. I., Candidate of Technical Sciences] 17

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Ch. II. Ultrasonic Flow Detection and Measurement of Wall Thickness of Pipes [Ferman, S. I., Engineer] 18

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Form milling of hardened steel

follows: $\gamma = 0^\circ$, $\alpha = 13^\circ$, $\lambda = 0^\circ$. The back rake angle $\gamma = 0^\circ$ is used to facilitate the checking of the tooth profile. The obtained data are given in graphs showing the dependence of the cutter wear on the cutting speed, feed per tooth and cutting depth, as well as the dependence of the surface finish on the cutting speed and feed. The following cutting parameters gave a high machining productivity (comparing to grinding) for 3-4 hours of milling:

Cutting process	The machined steel grade			
	"45"		9K1	
	HB 400	HB 500	HB 400	HB 500
Cutting speed, in m/min	110	80	90	70
Feed per tooth of milling cutter, in mm..	0.12	0.08	0.09	0.05
Cutting depth, in mm	1	0.5	0.5	0.5

Card 2/4

ADAM, A.I.; ADAM, I.I.; KUMEDI, M.S., inzh., m.a.

Pravda, K.I. - the operation of a semi-automatic machine
Sprevedokh z boreza. 123... , part. 1. K.I. M. A. I. I.
Mashino stroenie, 1961. 31. 1. (M. A. I. I.)

MIRZOYAN, S.A.; AMIRAZADYAN, TS.A.; OVIAN, Ye.M.

Experimental pharmacological investigation of the preparations of
Cephalaria gigantea. Nauch. trudy Inst. fiziol. AN Arm. SSR. 1:
99-130 '48. (MLRA 9:8)
(ARMENIA--BOTANY, MEDICAL) (ALKALOIDS--PHYSIOLOGICAL EFFECT)

CVYAN, Ye. M.

Mirzoyan, S. A., Amirzadeh, Es. A. and CVYAN, Ye. M. "Experimental program of research in the compounds of *Cephalaria platensis*", Nauch. trudy (Acad. nauk Arm. SSR, In-t fizikal. fil., I, 1968, (Russian title: 1968), pp. 1-10, (Resume in Armenian).

CG: U-3161, 10 April 68 (Leopold 'Zurnal In-t fizikal. fil., I, 1968)

TRZAJANOWSKI, Stanislaw; OWAIANY, Wieslaw

Latent duodenal diverticulum complicated by tuberculous extra-peritoneal lymphadenitis. Polski przegl.radiol.19 no.3:147-153 '55.

1. Z Pracowni Radiologicznej Panstwowego Szpitala Klinicznego nr 3 we Wroclawiu. Kierownik: dr St. Trzajanski i s I Kliniki Chirurgicznej A.M. we Wroclawiu Kierownik: doc.K. Gyzewski, St.Trzajanski, Warszawa, ul.Nowowiejska 5 m. 3.

(DUODENUM, diverticular,
with tuberc.extraperitoneal lymphadenitis)
(TUBERCULOSIS, LYMPH NODE, complications,
duodenal diverticulum in extraperitoneal lymphadenitis)

OWCZARCZAK, Edmund

Repeated prostatectomy in recurrent prostatic adenoma. Pol.
przeł. chir. 36 no.4a:Suppl. 605-614 Ap '64.

1. Z Kliniki Urologicznej Akademii Medycznej w Warszawie
(Kierownik: prof. dr S. Weełowski).

OWCZARSKI, A.

"Paleozoic iron ores in the region of the Old Polish Mining Basin," *Prace Geologiczne*, Warszawa, No 8, Aug. 1954, p. 45.

LC: Eastern European Accessions List, Volume, No 11, Nov 1954, L.C.

RUTKOWSKA, Filomena; OWCZAREK, Bogumil

Transistors of the TG-50 and TG-52 type produced by the TEWA
Transistor Plant. Przegl elektronika 2 no.3:245-249 J1 '61.

S/194/62/000/002/007/096
D230/D301

93280

AUTHOR: Owczarek, Bogumił

TITLE: Astable multivibrators using transistors

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 2, 1962, abstract 2-1-58ya (Przegł. elektron.,
1961, 2, no. 1, 79-98)

TEXT: This article presents methods of analysis and calculation of multivibrators using transistors TG1 and TG3 made by the firm TEWA (Poland). General characteristics of multivibrators as saw-tooth pulse generators are given, the pulse duration being less than half the pulse-spacing period. In this type of multivibrator, one of the transistors operates in saturation and cut-off conditions, the other in a linear regime. The pulse-spacing period is given by the formula:

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Astable multivibrators ...

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of both transistors. The effect of temperature on the pulse-spacing is relatively high and reaches 40%; this is due to strong dependence of the magnitude R_B on temperature. In order to compensate for the temperature effect on the pulse-spacing a decrease in the magnitude of R_B is recommended; this, however, has an adverse effect on the generation stability of the multivibrator. The operation quality of the multivibrator depends on the current amplification factor of the transistor: becoming better with increase in amplification factor. The design procedure and design formulas for calculating the basic parameters of symmetrical and unsymmetrical multivibrators are stated; an example of multivibrator design for the given pulse parameters and supply voltage is also given. 20 figures. 8 references. [Abstracter's note: Complete translation.]



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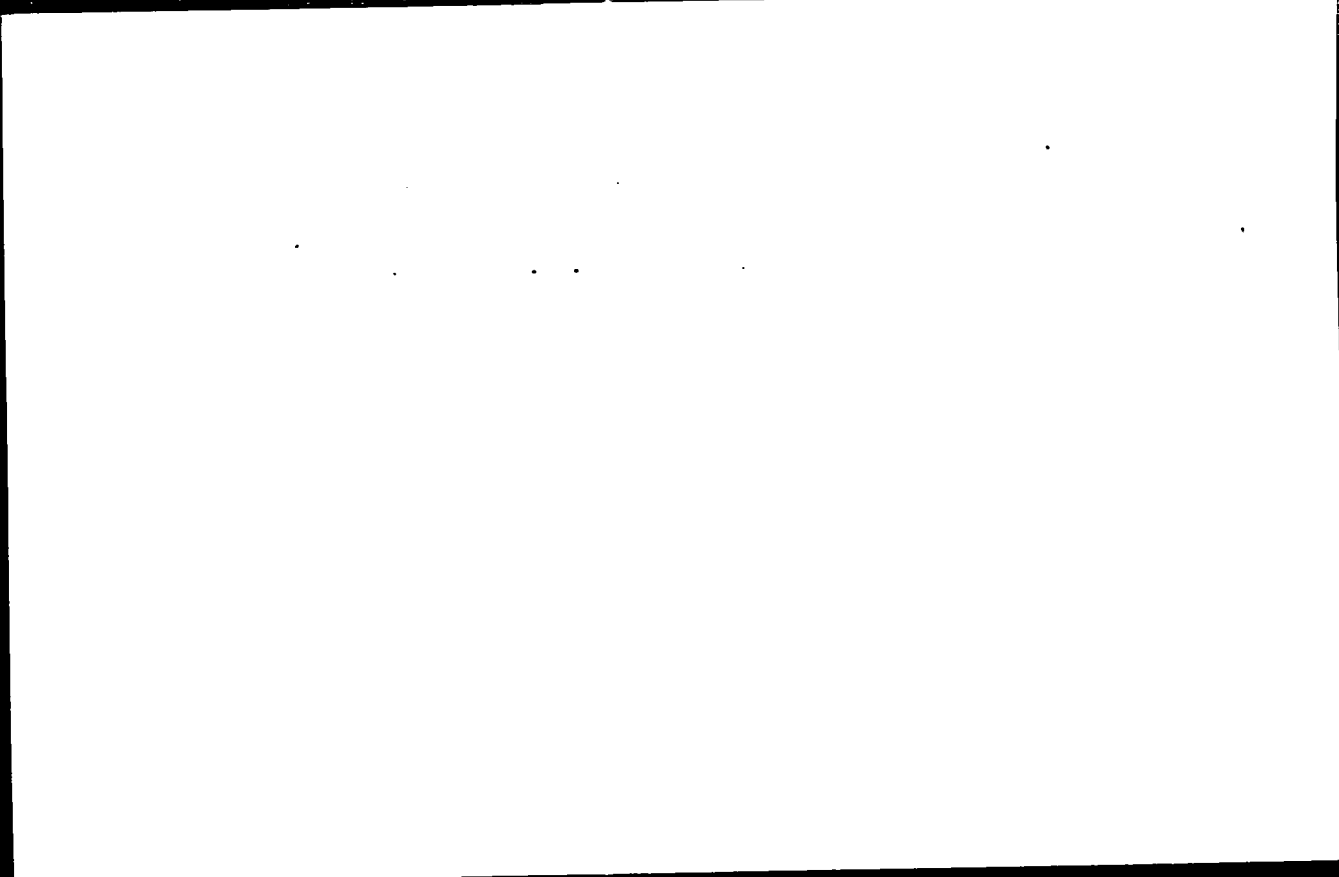
LEWY, Tadeusz; OWCIARSKA, Bezena

Retrosternal pain in patients with diaphragmatic hernia
recognized as coronary insufficiency. Wiad. lek. 18 no. 1.
1509-1511 1965.

1. Z Oddziału chorob wewnętrznych Szpitala im. J. Pasteura
w Łodzi (Ordynator: dr med. J. Wawrzynski).

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

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OWCZAREK, Jerzy

Outline of contemporary theory of indicating selsyn systems
with slip rings. Rospr elektrotech 10 no.4:519-617 '64.

1. Department of Electric Machines of the Technical
University, Warsaw.

OWCZAREK, Jerzy

Permissible vibrations of settled electric machines. Rozpr
elektrotech 9 no.4:511-522'63.

1. Katedra Maszyn Elektrycznych, Politechnika, Warszawa.

OWCZAREK, Jerzy

Testing of micromachines. Rozpr. elektrotech 8 no. 4: 07-274 1962.

1. Politechnika Warszawska, Katedra Maszyn Elektrycznych, Warszawa.

OWOZAREK, J.

Exact measurement of power drawn by a micromotor using a compensator in a rectangular coordinate system. Archiw elektrotechn. 10 no.1:147-163 '61.

1. Katedra Maszyn Elektrycznych, Politechnika, Warszawa.

OWCZAREK, Jerzy

Accuracy in measurements of micromotor revolutions. Rozpr elektrotech
7 no.3:381-396 '61.

1. Politechnika Warszawska, Katedra Maszyn Elektrycznych, Warszawa.

(Electric motors)

JACOBSON, A.

"Influence of a solenoid's parameters upon its torque gradient."

p.153 (Archiwum elektrotechniki Vol 2, no. 1, 1952, Warsaw, Poland.)

Monthly Index of East European acquisitions (EMIA) Vol, 3, no. Jan 54.

OWCZAREK, J.

"Transmitting and receiving selsyns."

p. 901 (Wiadomosci Elektrotechniczne) Vol. 17, no. 12, Dec. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEA1) LC. Vol. 7, no. 1,
April 1958

OWCZAREK, Lucjan; HANSZ, Janusz; PRZYBYL, Leszek

Amyloidosis and ankylosing spondylitis in chronic suppurative processes of the skin. Reumatologia (Warsz.) 2 no.3:267-271 '64.

1. Z III Kliniki Chorob Wewnętrznych Akademii Medycznej w Poznaniu (Kierownik: prof. dr K. Wysocki).

BIELSKI, Janusz; ONCZAREK, Lucjan; TAYLOR, Krystyna

Blood coagulation in experimental diabetes mellitus. *Acta med. wnet.* 34 no.10:1289-1296 (1961).

1. Z III Kliniki Chorob Wewnętrznych Akademii Medycyny w Poznaniu (Kierownik: prof. dr. med. J. Bielecki).

BADYDA, Cyryl; BIELSKI, Janusz; CHODERA, Alfons, OWCZAREK, Leszek.

Effect of some antiserotonin drugs on blood coagulation. Acta
physiol. pol. 14, no. 6, 1965-65, N-D(6)

1. Z III Kliniki Chorob Wewnętrznych AM w Poznaniu (kierownik: prof.dr.K. Wysocki) i z Zakładu Farmakologii AM w Poznaniu (kierownik: prof.dr.J.Dadlez).

*

LABENDZINSKI, Franciszek; MARCINIAK Maria; OWCZAREK, Lucjan; SAWICKA,
Anna.

Three cases of plasma-cell leukemia observed simultaneously
in 1 year. Pol. arch. med. wewn. 33 no.12:1437-1442 '63.

1. Z III Oddziału Wewnętrznego Szpitala Miejskiego im. Strusia
w Poznaniu (kierownik: dr.med. F.Labendzinski); z III.
Kliniki Chorób Wewnętrznych AM w Poznaniu (kierownik: prof.
dr.med. K.Wysoki); z Szpitala Powiatowego w Jarocinie
Poznańskim (ordynator: lek.med. J.Marciniak).

★

BIELSKI, Janusz; CHŁAPKIEY, Lucjan

Phosgene poisoning in charging fire extinguishers with carbon tetrachloride. Med. pracy 16 no.1:57-59 '65

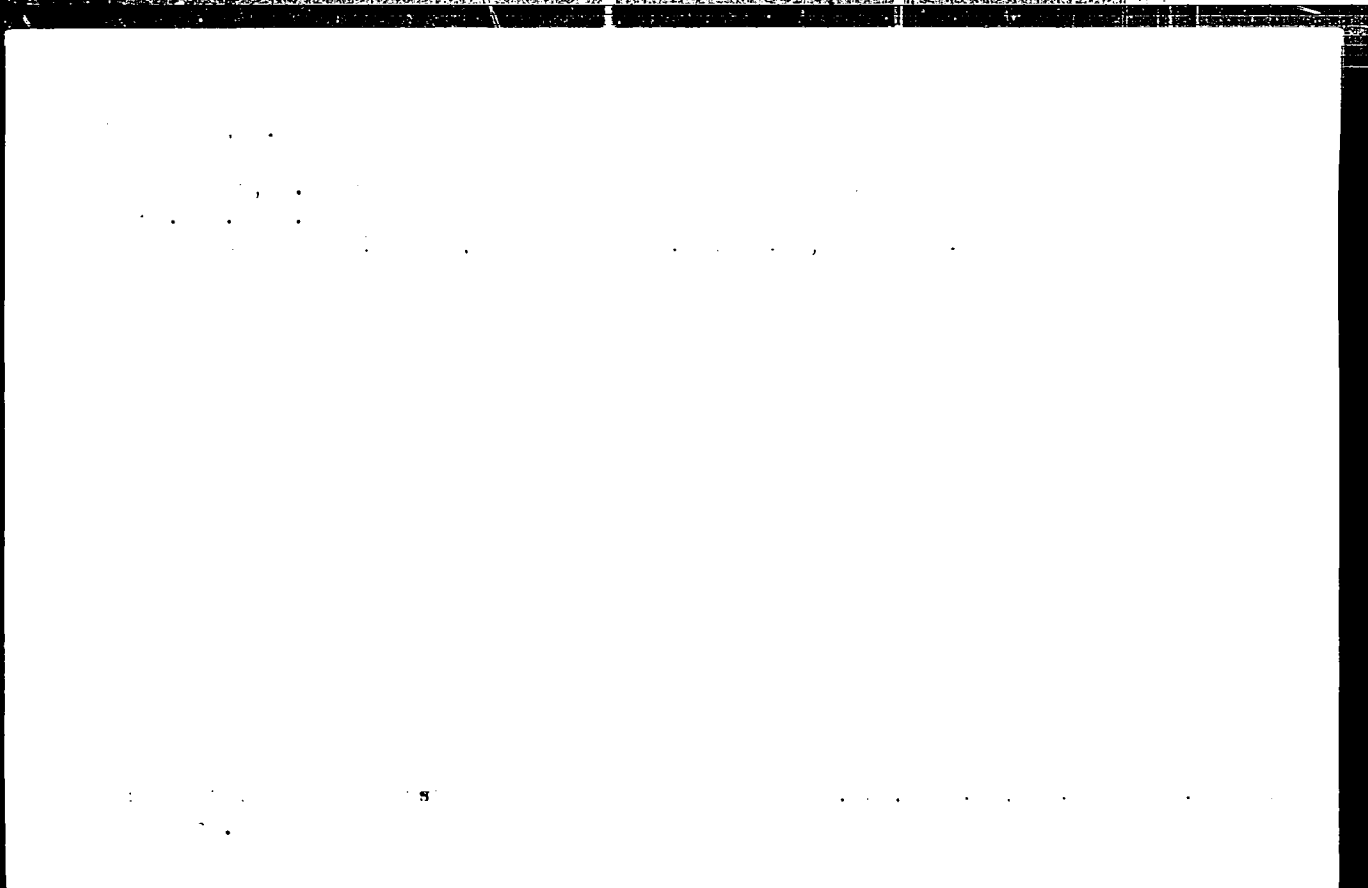
1. Z III Kliniki Chorob Wewnętrznych Akademii Medycznej w Poznaniu (kierownik: prof. dr. K. Wysocki).

OWCZARSKI, T.

the problems of asymmetry in the motion of an inhomogeneous medium.

1. M. (TADUWY...), Warszawa, Poland, Vol. 17, 1977, p. 100.

2: Monthly Index of Scientific Literature (MOSL), 1977, 7, 100.



28(1)

JUL 19 1959

AUTHOR: Cwczarksi, Tadeusz

TITLE: Reliability of Reactors Coincidence Safety Systems

PERIODICAL: Nukleonika 1959, Vol IV, Nr 6, p. 659 - 664

ABSTRACT: The author discusses the arrangements for safety alarm signals in case of defects occurring in reactors, designed for a long steady service. These arrangements could be "controlled" or "Non-controlled", but should be infallible, and also give a minimum of alarms, due to failures of arrangements themselves. These conditions could be obtained by using several identical arrangements connected in parallel. Studying individual elements of alarm system, which might be responsible for break-downs, the frequency of same could be evaluated by means of a simple probability calculus. There are 3 graphs and 3 references, 2 of which are Polish and 1 German.

ASSOCIATION: Instytut Elektrotechniki, (Electrotechnical Institute)
Warsaw.

SUBMITTED: September 1959
Card 1/1

G. CZARSKI (G. CZARSKI?), T.:

POLAND

"Estimating Exposure in Industrial Radiography".

SO: Prace Instytutu Elektryczności. Vol.5, No.15, 1951.

OWCZYNNIKOW, M., Gen. dyz., prof. dr ins.

Cadres of highly qualified engineers are one of the decisive factors for the growth of the defensive power of the state.
Przełt techn 84 no.4:6,7 13 0'63

1. Komendant Wojskowej Akademii Technicznej, Warszawa.

OWCZYNIKOW, Michal, gen. dyw., prof. dr inż.

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Radywa M., Owezarski T. Methods of Radiographic Inspection of High Pressure Pipe Welds.

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The Industrial Radiology Department of the Electrotechnical Institute has worked out methods of making radiographs from high pressure pipe welds. According to the diameters of pipes, various methods have been used for making radiographs and in particular: 1) for pipes over 40 mm. in diameter when it is possible to insert the target of the X-ray tube into the pipes -- the revolving method; 2) for pipes of over 100 mm in dia. and wall thickness of over 20 mm when the exposure-holder can be inserted into the pipes -- the single wall method; 3) for pipes of 100 to 400 mm in dia. when it is impossible to insert the exposure-holder into the pipes -- the double wall method; 4) for pipes under 100 mm. in dia -- the method of elliptic projection. Rating inspection rules for pipe welds, made according to Soviet standards, are discussed on the basis of radiographs.

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AUTHOR: Urbanski, S. (Doctor); Owczaraki, T. (Master engineer)

ORG: Institute of Electrical Engineering (Instytut Elektrotechniki)

TITLE: Computational and experimental methods in the synthesis of automatic drive systems using the example of an automatic speed synchronization system

SOURCE: Przegląd elektrotechniczny, no. 8, 1965, 296-299

TOPIC TAGS: automatic control system,¹⁴ automatic control design, automatic control equipment, electronic feedback

ABSTRACT: The example of an automatic speed synchronization system is used to discuss computational and experimental methods for the synthesis of automatic drive systems. Operational transmittances are derived for the separate units of the system and the root-locus method is used for synthesis. Two variants of compensation are considered: tandem-only and feedback-tandem compensation. Block diagrams of the system employing the two types of compensation are shown. A model system employing the two types of compensation was built, and the experimental results obtained as well as oscillograms of the responses of the model system to load-torque disturbances are presented and discussed. The experimental results show that the system with elastic feedback has much better amplification than the system with tandem-only compensation of either the differentiating or the integrating type. The system

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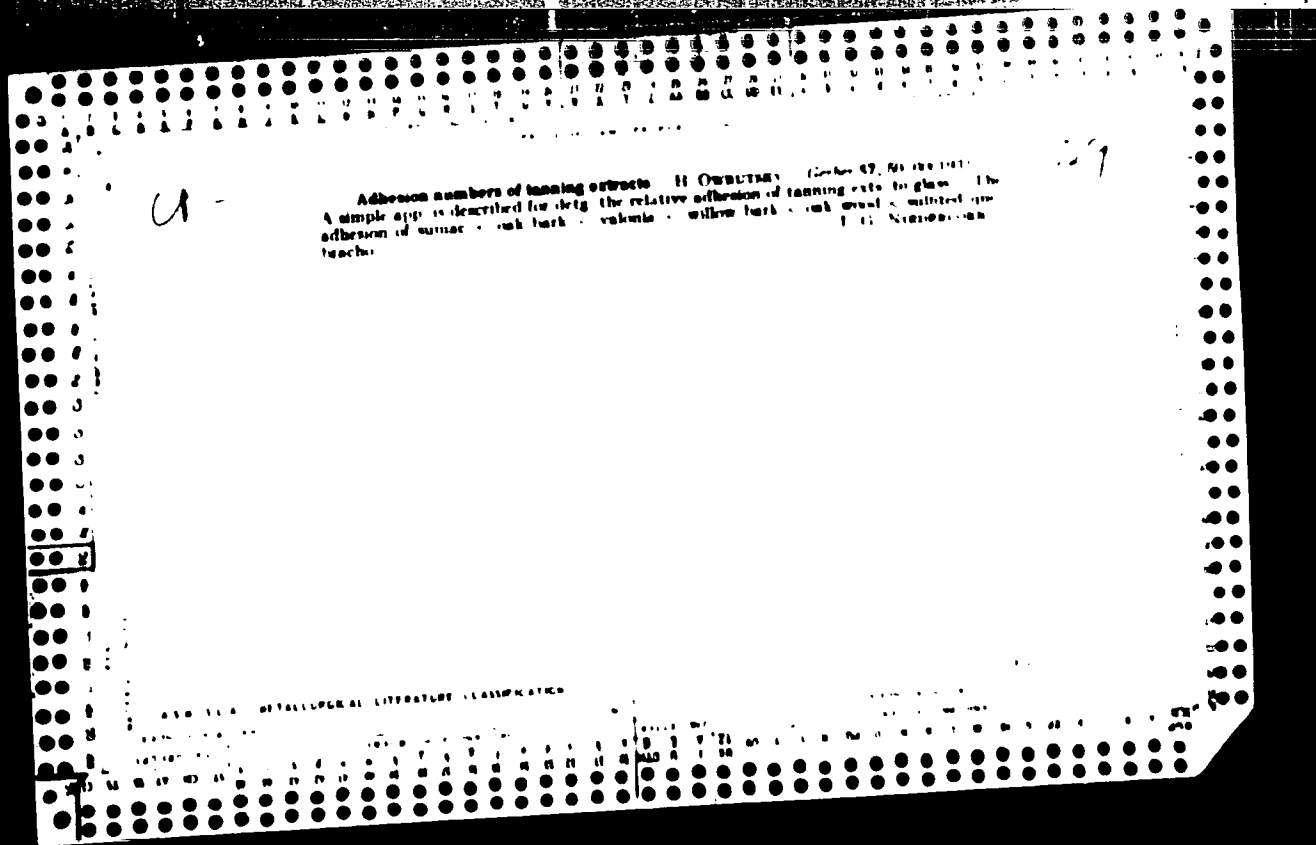
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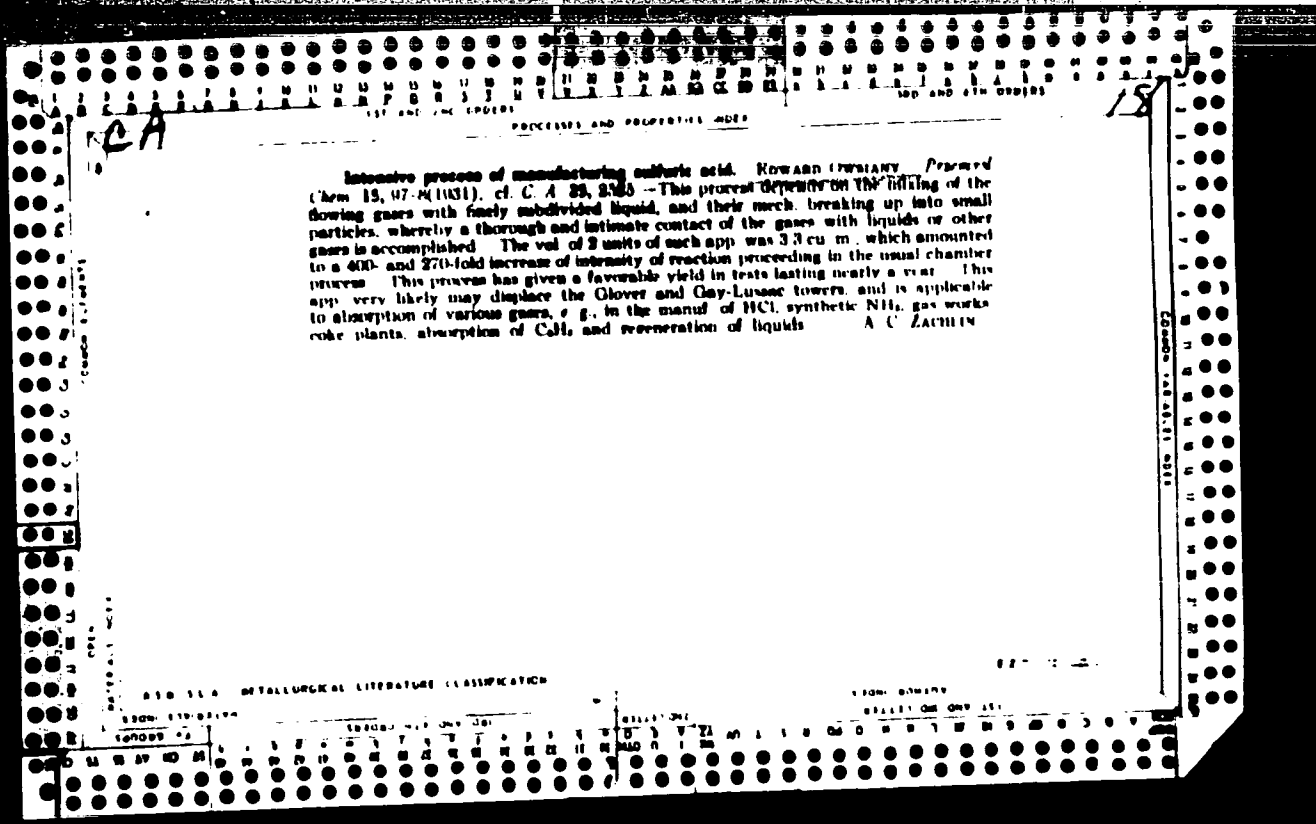
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