"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

45379
S/056/63/044/001/053/067
B187/B102

24.6300

AUTHORS: Bukat, G. M., Sliv, L. A., Sogomonova, G. A.

TITLE: Residual pair forces in the light nuclei O^{18} and F^{18}

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44, no. 1, 1963, 316-325

TEXT: The nuclei of O^{18} and F^{18} are considered to be composed of the magic core with filled shells (O^{16}) plus two nucleons moving in the potential $V = V_C + V_S + V_p$. V_C is the averaged local potential of all nucleons of the nucleus, and has been determined by L.S. Sliv and B. A. Volchok (ZhETF, 36, 539, 1959). V_S is the potential caused by the quadrupole portion of interaction between an external nucleon and the nucleons of the core. It has been calculated by V.N. Guman (ZhETF, 41, 800, 1961). V_p occurs in the presence of external nucleons and is determined by the residual forces left over after averaging. These are mainly pair forces which become active at small nucleon distances. They

Card 1/4

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

Residual pair forces in the light ...

independent of the isospin. The transition probabilities $P(\lambda)$ between the individual levels change by 9 orders of magnitude. [Abstracter's note: 10^{14} should read 10^{4}.] After elimination of the energy dependence, the values of the reduced probability $B(m_\lambda)$ change by 3 orders of magnitude. Despite the considerable variation, the m_λ values calculated agree fairly well with those observed. The interaction between nucleons and core is strongest in light nuclei, as the effective surface tension C decreases from 2000 to 150 in going from Pb^{206} to O^{16}. The sensitivity of the results to the parameters $\hbar\omega$ and C increases; the values calculated and observed for $\hbar\omega$ = 1.8 - 2.0 are in good agreement, whereas those observed and calculated for $\hbar\omega$ = 3, differ considerably. The results obtained for the spectra in the present paper are more complete and exact than those obtained either by J.P. Elliott and B.H. Flowers (Proc. Roy. Soc., A229, 1955, 536) using the shell model, or by M.G. Redlich (Phys. Rev. 110, 1958, 468) using the model of a deformed nucleus. There are 4 figures and 4 tables.

Card 3/4

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIV, L. A.; KHARITONOV, Yu. I.

"High-Lying Nuclear Isomeric States."

report submitted for All-Union Conf on Nuclear Spectroscopy, Tbilisi, 14-22 Feb 64.

FTI (Physico Technical Inst)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

ACCESSION NR: AP4019253 S/0056/64/046/002/0811/0813

AUTHOR: Sliv, L. A.; Kharitonov, Yu. I.

TITLE: Residual np interaction in heavy nuclei and high isomer states

SOURCE: Zhurnal eksper. i teor. fiz., v. 46, no. 2, 1964, 811-813

TOPIC TAGS: np interaction, heavy nucleus, isomer state, high lying isomer state, transuranium element

ABSTRACT: In view of the large number of nuclear phenomena in which a vital part is played by residual np interaction between the nucleons of the overfilled neutron and proton shells, and analysis is made of the matrix elements of the np forces in such interactions, for various neutron and proton configurations. It is found that isomeric levels caused by np forces can be both low and high lying with respect to the ground state, and that high lying isomeric states

Card 1/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 27606-66 EWT(m)

ACC NR: AP6018485 SOURCE CODE: UR/0367/65/001/006/1129/1131

36
34
B

AUTHOR: Sliv, L. A.; Kharitonov, Yu. I.

ORG: Physico-Technical Institute im. A. F. Ioffe, AN SSSR (Fiziko-tekhnicheskiy institut AN SSSR)

TITLE: Isospin in heavy nuclei 14

SOURCE: Yadernaya fizika, v. 1, no. 6, 1965, 1129-1131

TOPIC TAGS: heavy nucleus, Coulomb interaction, quantum number, nuclear spin, light nucleus, cadmium, nucleon, nuclear resonance

ABSTRACT: Whether or not it is possible to ascribe definite values of the isospin T to states of heavy nuclei has become of current importance in connection with the observation of analog states. Reasons have been given that the isospin T may be a good quantum number for large values of the nuclear charge Z. But it is of interest to find the fraction of the mixture of states with other T in the lowest value of the isospin T_0 for the ground state, using the most realistic model of the nucleus and accurate approximations for the effect of Coulomb interaction.

The paper gives a formula for the Coulomb potential of a particle in a field of Z particles. The Coulomb part of the potential results in an admixture of states with other T; or, more exactly, only the variable part of the Coulomb potential mixes states with different T. Accordingly, in the potential for the

Card 1/3

2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

perturbation in T it is necessary to include only the term proportional to r_1^2. The resulting potential gives single-particle transitions to states with the same spins j and the same parity but with different radical quantum numbers n, in which the isospin T of the nucleus may change by unity. A formula is given for the fraction P of admixture of states with other T. The dependence of the fraction P on Z is expressed principally in the sum of n terms in the formula for P, in which n increases with Z.

For light nuclei up to Z=20(Ca^{40}), for which $T_0 = 0$, the admixture fraction P increases with Z. The admixture of other T would increase approximately linearly if the isospin T_0 remained equal to zero. Then, for nuclei heavier than Ca40, use of the isospin as a quantum number would cease to have meaning. But for stable nuclei after Ca40 (actually the Ca40 nucleus does not lie on the stability curve) the isospin T_0 is greater than zero and increases with increase in A. In other words, the admixture fraction P remains approximately the same for all stable nuclei: i.e., 1-2%. This result may also be extended to all the low excited states of the nuclei.

The purity of the isospin T in heavy nuclei may be verified experimentally from the familiar selection rules. Thus, the Fermi β-transition $0^+ \rightarrow 0^+$ which is permitted in the ordinary spin will be forbidden in the isospin. Nuclear charge exchange reactions A(p,n)B, which go through resonance states of the compound nucleus, will be forbidden in T.

The ground state corresponds to a potential well with the minimum value $T_0 = \frac{1}{2}(N - Z)$. Excited states of the well correspond to higher values

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 27606-66
ACC NR: AP6018485

2

of the isospin T. The nucleon states in the excited well are said to be analog states and are easily observed experimentally. The authors thank M. Ya. Amus'ya and B. L. Birbrair for their helpful discussions. Orig. art. has: 1 figure and 8 formulas. [JPRS]

SUB CODE: 20 / SUBM DATE: 26Feb65 / ORIG REF: 001 / OTH REF: 002

Card 3/3 CC

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 26948-65 EWT(1) IJP(c)

ACCESSION NR: AP5004530 S/0048/65/029/001/0102/0104

AUTHOR: Band, I.M.; Listengarten, M.A.; Sliv, L.A.

TITLE: Conversion matrix elements /Report, 14th Annual Conference on Nuclear Spectroscopy in Tbilisi 14-22 Feb 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.29, no.1, 1965, 102-104

TOPIC TAGS: internal conversion, Gamma radiation, conversion coefficient, conversion matrix

ABSTRACT: An internal conversion coefficient is expressed as the sum of the so-called partial coefficients pertaining to transitions of the electron to different final states of the energy continuum, characterized by the quantum number $\varkappa$:

$$\alpha_q^{(\tau L)} = \sum_{\varkappa} |M_\varkappa|^2 \equiv \sum_{\varkappa} |\operatorname{Re} M_\varkappa + i \operatorname{Im} M_\varkappa|^2.$$

Here $\alpha_q^{(\tau L)}$ is the conversion coefficient of type τ gamma-radiation (E = electric; M = magnetic) of multipole order L on the q-th shell or subshell, and $M_\varkappa \equiv M_\varkappa^{(\tau L)}$ is the partial conversion matrix element. These matrix elements are intermediate results in calculating internal conversion coefficients, but they also are of independent value and are used in solving other problems. In the present work there

1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 26948-65

ACCESSION NR: AP5004530

4

were calculated and tabulated the M_x for E1, E2, M1, and M2 transitions for the following values of the atomic number and transition energy $k = \hbar\omega/mc^2$: K-shell: Z = = 81, 84, 88, 92, $0.20 \leq K \leq 5.0$, L-shell: Z = 49, 53, 57, 61, 65, 69, 73, 77, 81, 84, 88, 92, 95, 98, $0.05 \leq K \leq 0.70$. The algebraic expressions used for the matrix elements are adduced. "The individual numerical values for the matrix elements for any k, Z and multipolarity, among those listed above, can be obtained from the authors. It will be possible to order photoprints or microfilms of the tables from the Institute of Scientific Information of the Academy of Sciences of the SSSR. The authors are grateful to N.B.Brovtsina, K.I.Golovan', L.I.Fraiental' and F.I.Langelen, who participated in compilation of the tables." Orig.art.has: 21 formulas. [02]

ASSOCIATION: none

SUBMITTED: 00/--Jan65 ENCL: 00 SUB CODE: GP, MA

NR SOV REF: 007 OTHER: 001 ATD PRESS: 3189

2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

RIVKIN, Samuil Simonovich; OSTROMUKHOV, Ya.G., inzh., retsenzent; SLIV, E.I., doktor tekhn. nauk, retsenzent; CHERTKOV, R.I., doktor fiz-mat. nauk, nauchn. red.; KLIMINA, Ye.V., red.

[Theory of gyroscopic devices] Teoriia giroskopicheskikh ustroistv. Leningrad, "Sudostroenie." Pt.2. 1964. 547 p. (MIRA 17:7)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

Q-7

CZECHOSLOVAKIA/Farm Animals - Honey Bee

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 26269

Author : ~~Sliva B.~~

Inst : On the Widening of Nests by Surplus Combs and Artificial Comb Foundation (O rasshirenii gnezd zapasnymi sotami i iskusstvennoy voshchinoy)

Orig Pub : Vcelarstvi, 1957, 10, No 3, 40-41

Abstract : The author considers as incorrect the currently used method of widening the nest first by putting surplus combs and then using the artificial comb foundation only after the building instinct is awakened in the bees. He quotes a number of examples wherein the bees prefer the artificial comb foundation. The use of surplus combs is justified only when the colony lags behind in its development in the adverse weather which continues until the end of March or the beginning of April, and when afterwards, suddenly warmer weather sets in, and contributes a good honey crop.

Card : 1/1

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

CZECHOSLOVAKIA

SLIVA, D.; RAZ, K.; FRANC, Zd.; NEMECEK, O.; Research Institute of Pharmacy and Biochemistry (Vyzkumny Ustav pro Farmacii a Biochemii), Prague.

"Absorption, Distribution, and Excretion of Activity After the Administration of C14-Ketophenylbutazone to Rats."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 5, Sep 66, pp 407 - 408

Abstract: 1,2-diphenyl-4-(gamma-ketobutyl)-pyrazolidin-3,5-dion was tagged with radioactive C on the 3rd carbon in the pyrazolidin ring. The rate of adsorbtion and excretion and the affinity of individual organs for the drug are described. The drug has a high affinity for the brain, and stimulates the hypophysis adrenal glands. It has a low affinity for blood and is transported by the blood. The levels in bones are low. 2 Western, 3 Czech references. 1 Figure. Submitted at 14 Days of Pharmacology at Smolenice, 16 Feb 66.

1/1

SKURIKHINA, L.A.; SLIVA, I.I.

Inductothermy in the adrenal region in the compound treatment of

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

GRIGOR'YEVA, T.G., starshiy nauchnyy sotrudnik; GLEBOV, M.A., starshiy nauchnyy sotrudnik; PERSIN, S.A., starshiy nauchnyy sotrudnik; PETRUKHA, O.I., starshiy nauchnyy sotrudnik; SLIVA, I.K.

Practices in effective control of the sugar beet weevil. Zashch. rast. ot vred. i bol. 4 no.5:23-25 S-O '59. (MIRA 16:1)

1. Vsesoyuznyy institut zashchity rasteniy (for Grigor'yeva, Glebov, Persin). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly (for Petrukha). 3. Glavnyy agronom inspektsii po sel'skomu khozyaystvu Smelyanskogo rayona, Cherkasskoy oblasti (for Sliva).
(Smela District--Sugar beets--Diseases and pests)
(Smela District--Weevils--Extermination)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

M

POLAND/Cultivated Plants. Fruits. Berries.

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20471.

Author : J. Sliva
Inst : Not given
Title : The Effect of Pruning Slightly Frozen Trees on the Restoration of Dead Tissue. (Vliyaniye obrezki podmerzshikh derev'yev na vosstanovleniye otmirayushchikh tkaney).

Orig Pub: Przegl. ogrodn., 1956, 33, No 11, 6.

Abstract: During the winter of 1955/56 frosts strongly affected Poland's fruit orchards, in particular, the poorly fertilized and tilled ones, as well as those bearing large quantities of fruit in 1955. In the tests conducted with plums and nut trees not one of the methods of fall pruning yielded positive results. In orchards suffering from

Card : 1/2

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

GONSKIY, G.V., kand.tekhn.nauk; SLIVA, O.K., inzh.

Designing an elastic plunger coupling with a limiting moment. Izv.vys.ucheb.zav.; mashinostr. no.6:71-80 '63. (MIRA 16:10)

1. Khar'kovskiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 10847-67 EWT(m)/EWP(k)/EWP(w)/EWP(v) ... EWP(...

ACC NR: AR6034733 SOURCE CODE: UR/0124/66/000/008/V052/V052 32

AUTHOR: Sliva, O. K.

TITLE: Specific features in calculating the natural frequencies of bending of the operating blades of turbine machines with the use of discrete models

SOURCE: Ref. zh. Mekhanika, Abs. 8V422

REF SOURCE: Dinamika, i prochnost' mashin. Resp. mezhved. nauchno-tekhn. sb., vyp. 1, 1965, 26-31

TOPIC TAGS: turbine blade, shaft, natural vibration, natural frequency, bending vibration, mass distribution, bending oscillation

ABSTRACT: An investigation has been made of the effect on the design values by natural frequencies of bending oscillations of a shaft and on the methods of substituting its distributed mass with several concentrated masses. Two methods are analyzed for the distribution of mass of the shaft: the mass of the section is concentrated at its center of gravity and the mass of the section is spread over its ends. It is shown that with an even division into sections the first method yields excessively-high natural frequency values, while the second produces underrated

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

ACC NR: AT6034487 SOURCE CODE: UR/0000/66/000/000/0116/0122

AUTHOR: Zhuravleva, A. M. (Khar'kov); Sliva, O. K. (Khar'kov)

ORG: none

TITLE: Vibration of rotors of a disc-drum construction

SOURCE: Khar'kov. Politekhnicheskiy institut. Dinamika i prochnost' mashin (Dynamics and strength of machines), no. 3, Kharkov, Izd-vo Khar'kovskogo univ., 1966, 116-122

TOPIC TAGS: vibration analysis, rotor blade, turbine rotor

ABSTRACT: In a drum-like rotor, the rigidity of the discs and that of the shell connecting them is of the same order of magnitude, so that the condition of a rigid disc clamping (along a certain radius) is not fulfilled. The vibrations of one disc are transmitted through the shell to other discs. A rotor of this type must be considered as a single dynamic system with a complex spectrum of resonance states excited by forces originated in any of the parts of the rotor. The authors developed a method for the calculation of the vibrations of this system by using a discrete model of a shell consisting of massive rings without thickness connected by massless portions of the shell. The matrix equations of such a model are obtained by expressing the displacements of the shell along the axes x, y, z in spheric coordinates. The

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

GONSKIY, G.V., kand. tekhn. nauk; SLIVA, O.K., inzh.

Investigation of the performance of a plunger coupling and the determination of the optimum value of its basic parameters. Izv. vys. ucheb. zav.; mashinostr. no.2:101-114 '63. (MIRA 16:8)

1. Khar'kovskiy politekhnicheskiy institut.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

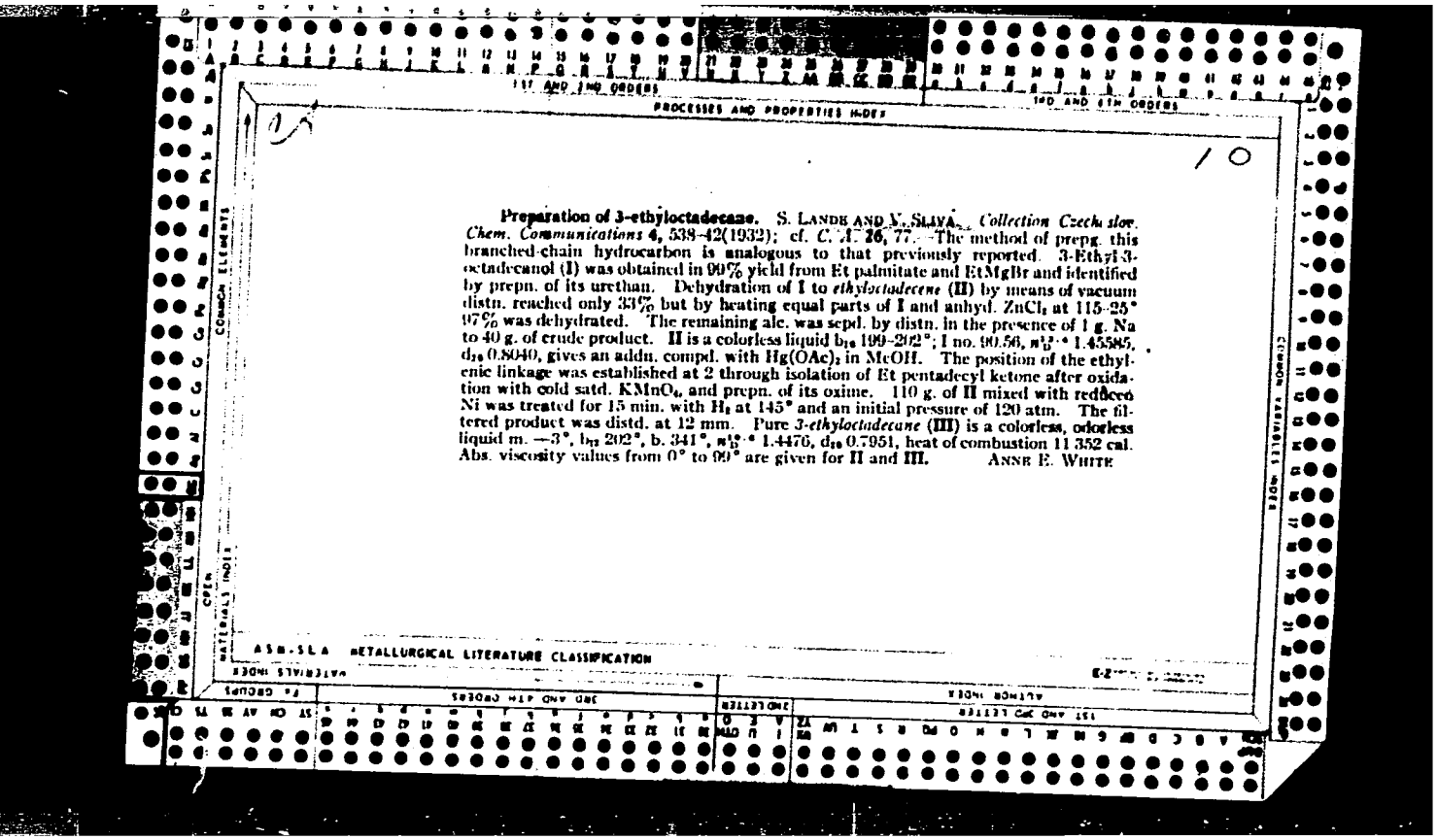
SLIVA, P.I. [deceased], dotsent

Some complications in myocardial infarct and their treatment. Khirurgiia 37 no.1:58-61 Ja '61. (MIRA 14:2)

1. Iz TSentral'noy poliklinikl Ministerstva zdravookhraneniya RSFSR (Moskva).
(HEART—INFARCTION) (INTESTINES—OBSTRUCTION)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6



PROCESSES AND PROPERTIES INDEX

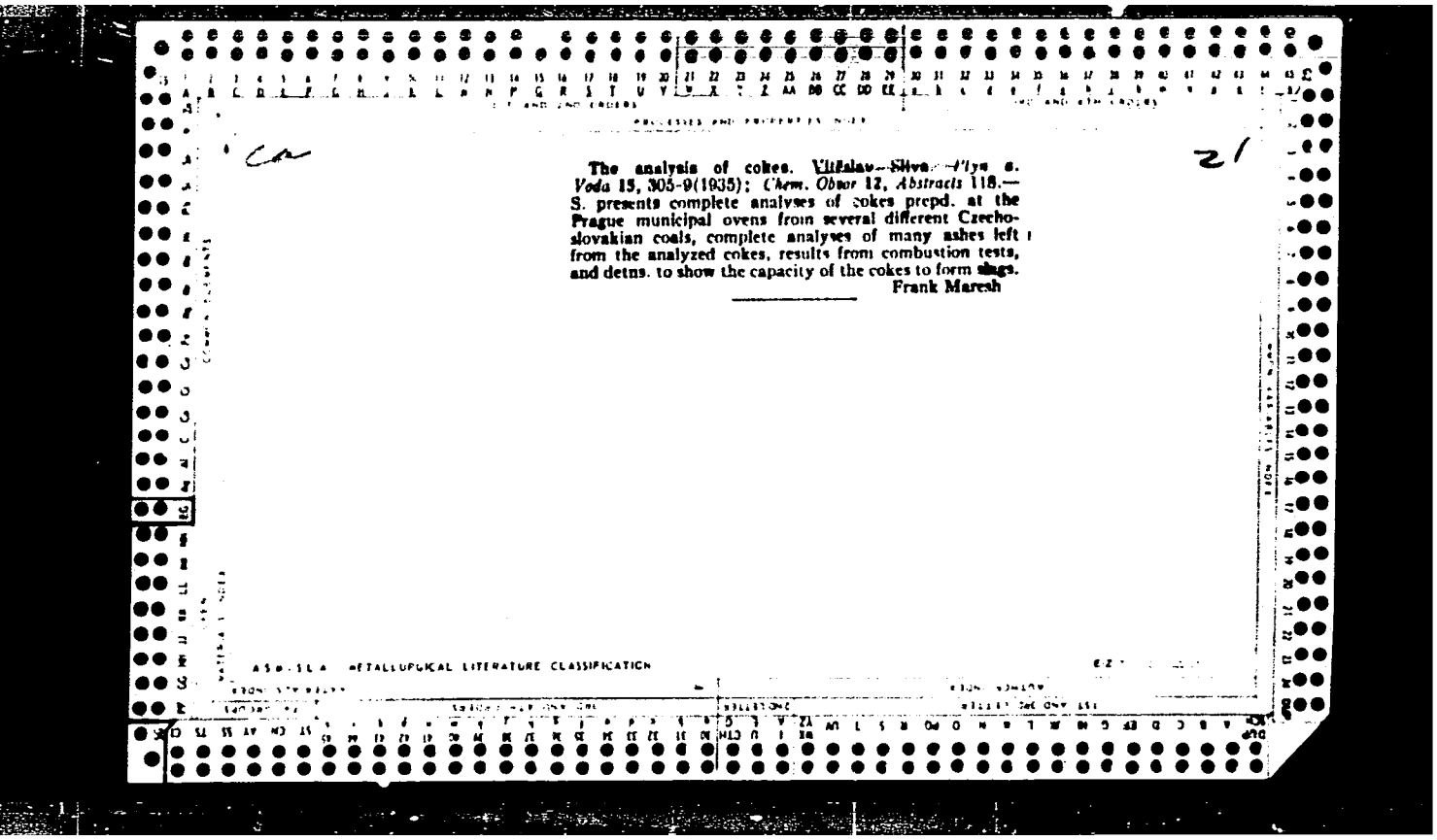
1 0

Preparation of 3-ethyloctadecane. S. LANDE AND V. SLIVA, *Collection Czechs. slov. Chem. Communications* **4**, 538–42(1932); cf. *C. A.* **26**, 77.—The method of prepg. this branched-chain hydrocarbon is analogous to that previously reported. 3-Ethyl-3-octadecanol (I) was obtained in 90% yield from Et palmitate and EtMgBr and identified by prepn. of its urethan. Dehydration of I to *ethyloctadecene* (II) by means of vacuum distn. reached only 31% but by heating equal parts of I and anhyd. $ZnCl_2$ at 115–25° 97% was dehydrated. The remaining alc. was sepd. by distn. in the presence of 1 g. Na to 40 g. of crude product. II is a colorless liquid b_{16} 199–202°; I no. 90.56, n_D^{20} 1.45585, d_{16} 0.8040, gives an addn. compd. with $Hg(OAc)_2$ in MeOH. The position of the ethylenic linkage was established at 2 through isolation of Et pentadecyl ketone after oxidation with cold satd. $KMnO_4$, and prepn. of its oxime. 110 g. of II mixed with reduced Ni was treated for 15 min. with H_2 at 145° and an initial pressure of 120 atm. The filtered product was distd. at 12 mm. Pure *3-ethyloctadecane* (III) is a colorless, odorless liquid m. —3°, b_{12} 202°, b. 341°, n_D^{20} 1.4476, d_{16} 0.7951, heat of combustion 11 352 cal. Abs. viscosity values from 0° to 99° are given for II and III. ANNE E. WHITE

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6



Ca

21

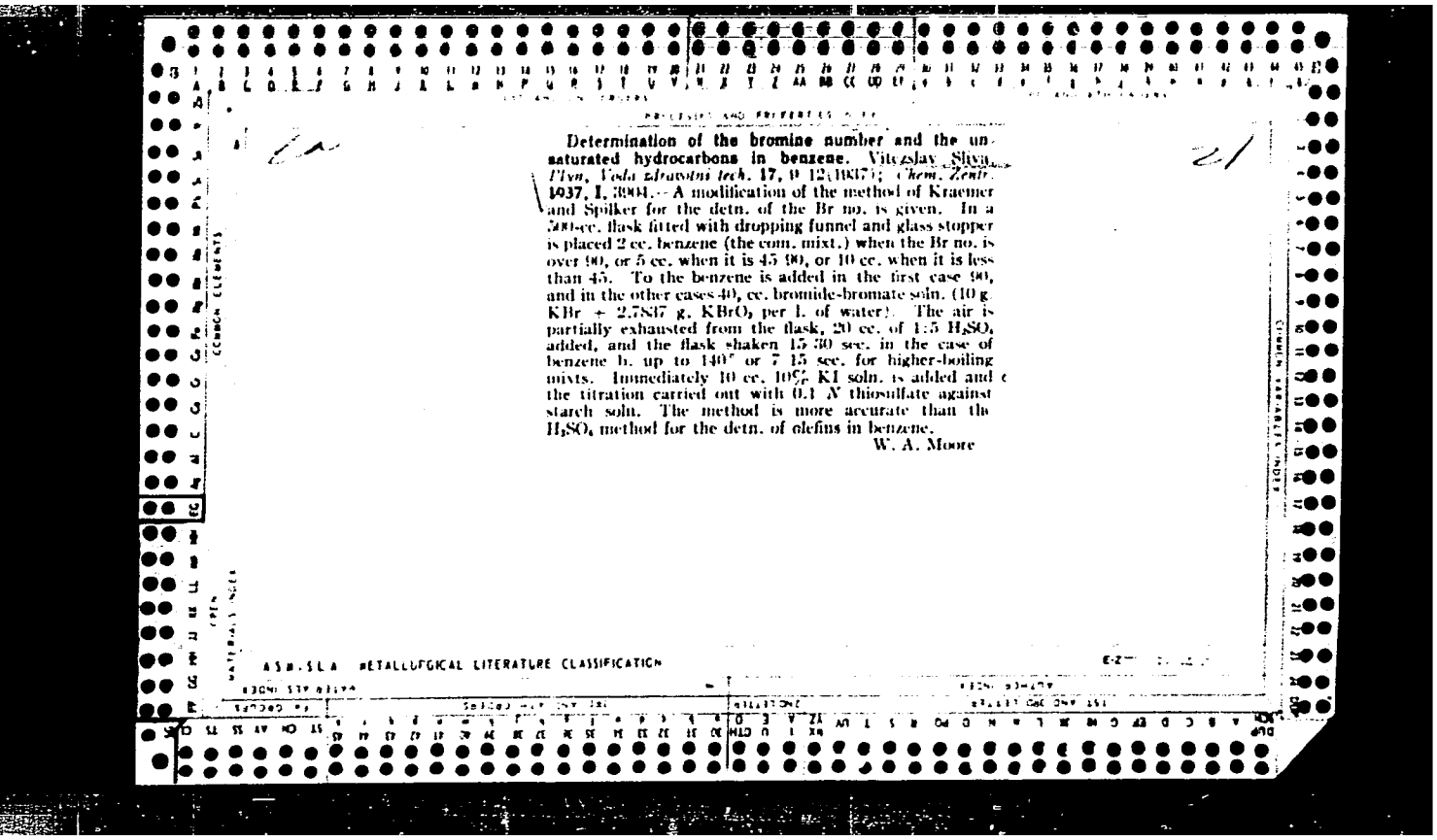
The analysis of cokes. Vitěslav Sliva. *Plyn a. Voda* 15, 305-9(1935); *Chem. Obsor* 12, *Abstracts* 118.—S. presents complete analyses of cokes prepd. at the Prague municipal ovens from several different Czechoslovakian coals, complete analyses of many ashes left from the analyzed cokes, results from combustion tests, and detns. to show the capacity of the cokes to form slags.

Frank Maresh

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6



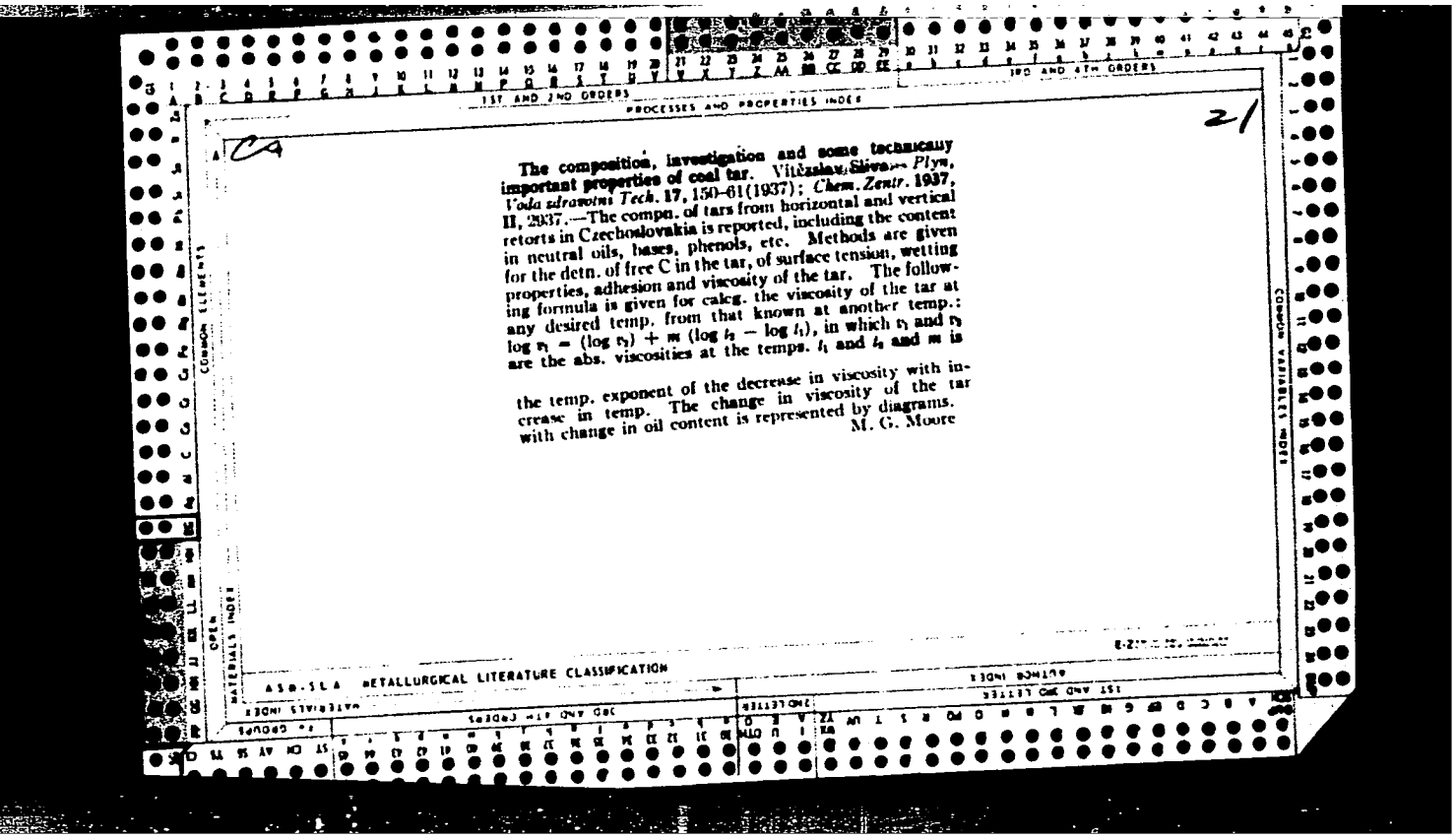
Determination of the bromine number and the unsaturated hydrocarbons in benzene. Vitezslav Sliva. *Plyn, Voda zdravotni tech.* **17**, 9–12 (1937); *Chem. Zentr.* **1937, I**, 3904.—A modification of the method of Kraemer and Spilker for the detn. of the Br no. is given. In a 200-cc. flask fitted with dropping funnel and glass stopper is placed 2 cc. benzene (the com. mixt.) when the Br no. is over 90, or 5 cc. when it is 45–90, or 10 cc. when it is less than 45. To the benzene is added in the first case 90, and in the other cases 40, cc. bromide-bromate soln. (10 g. KBr + 2.7837 g. $KBrO_3$ per l. of water). The air is partially exhausted from the flask, 20 cc. of 1:5 H_2SO_4 added, and the flask shaken 15–30 sec. in the case of benzene b. up to 140° or 7–15 sec. for higher-boiling mixts. Immediately 10 cc. 10% KI soln. is added and the titration carried out with 0.1 *N* thiosulfate against starch soln. The method is more accurate than the H_2SO_4 method for the detn. of olefins in benzene.

W. A. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6



CA

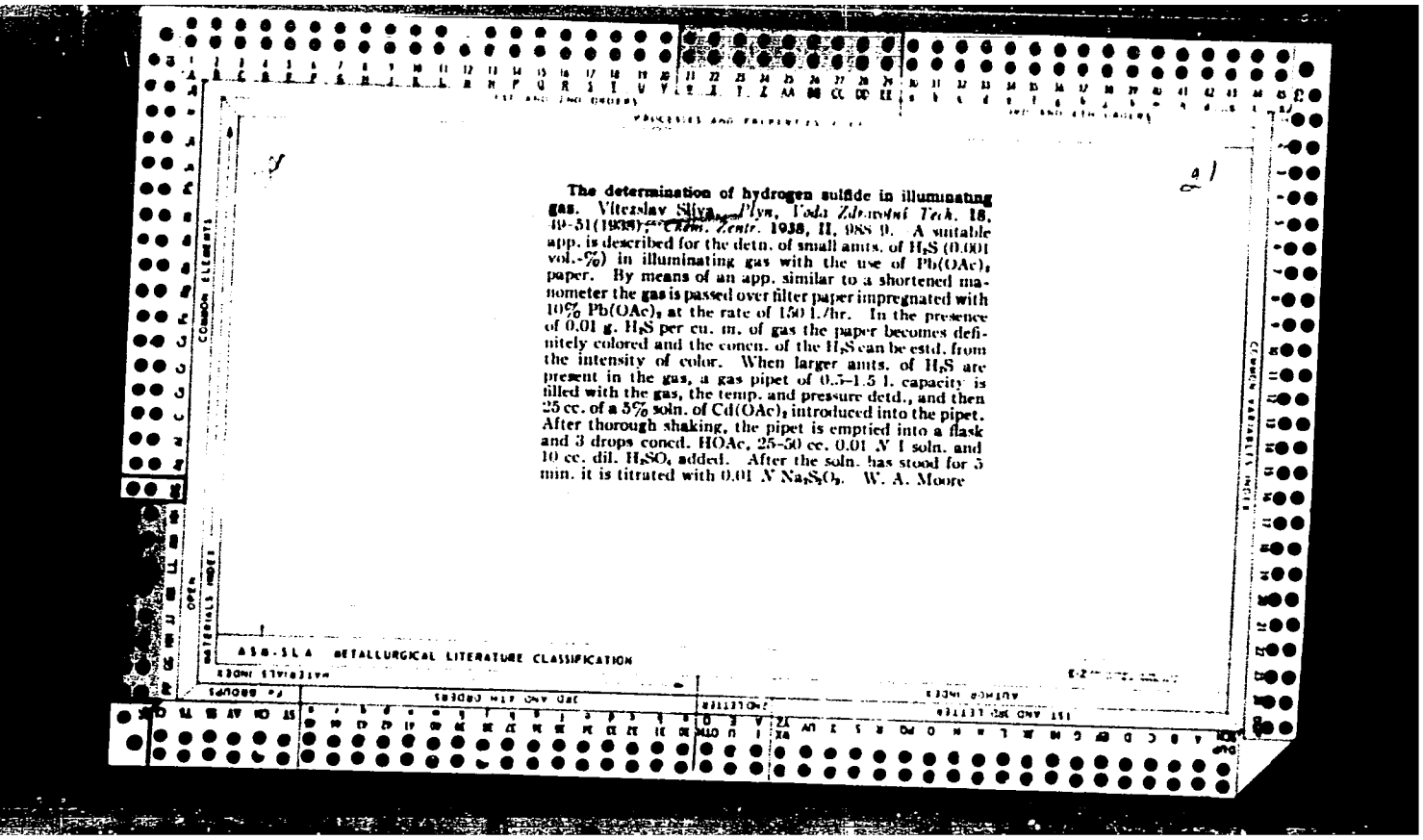
21

The composition, investigation and some technically important properties of coal tar. Vítězslav Slíva. *Plyn, Voda zdravotní Tech.* **17**, 150–61(1937); *Chem. Zentr.* **1937**, II, 2937.—The compn. of tars from horizontal and vertical retorts in Czechoslovakia is reported, including the content in neutral oils, bases, phenols, etc. Methods are given for the detn. of free C in the tar, of surface tension, wetting properties, adhesion and viscosity of the tar. The following formula is given for calcg. the viscosity of the tar at any desired temp. from that known at another temp.: $\log \eta_1 = (\log \eta_2) + m (\log t_2 - \log t_1)$, in which η_1 and η_2 are the abs. viscosities at the temps. t_1 and t_2 and m is the temp. exponent of the decrease in viscosity with increase in temp. The change in viscosity of the tar with change in oil content is represented by diagrams.

M. G. Moore

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

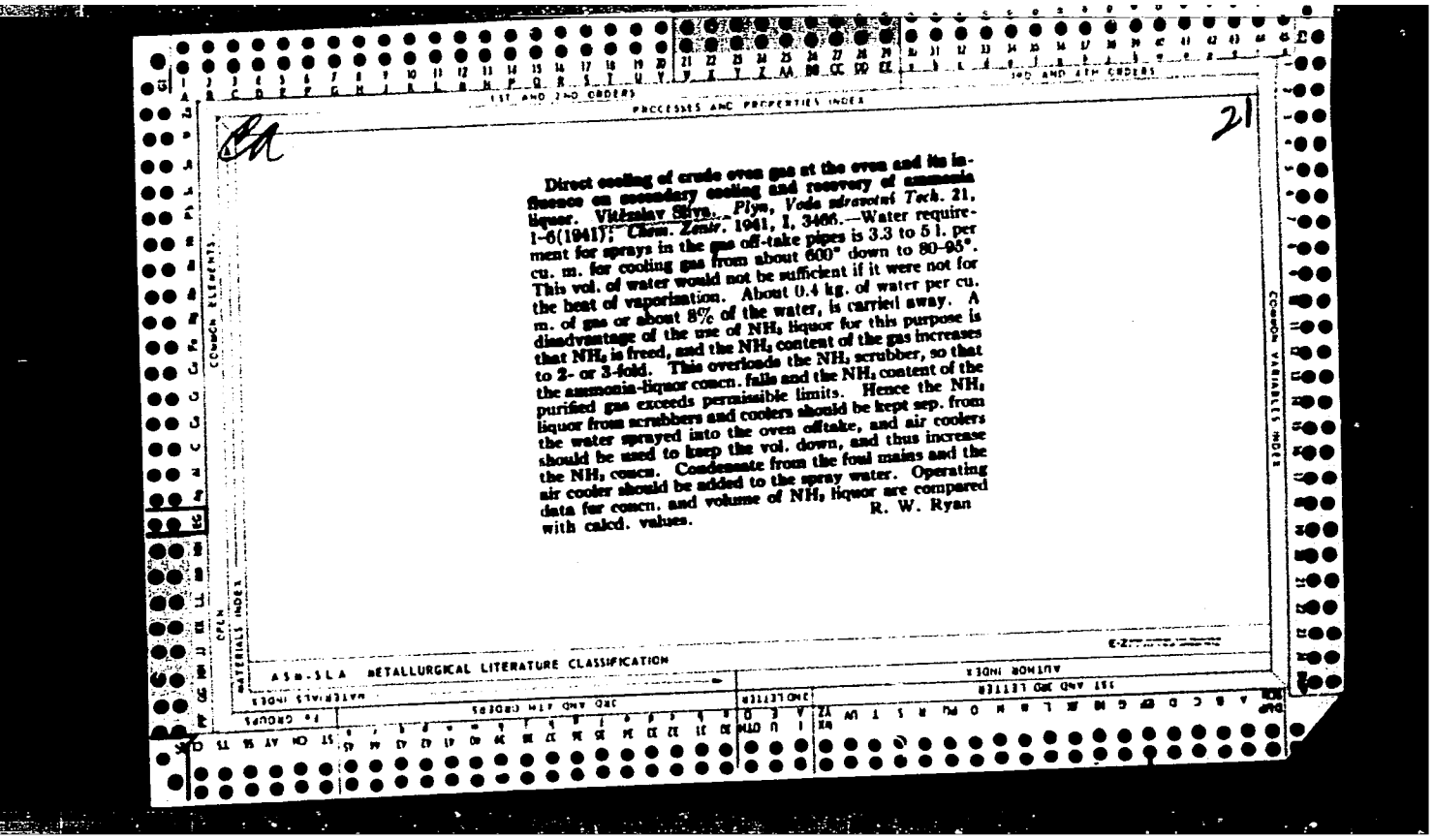


The determination of hydrogen sulfide in illuminating gas. Vítezslav Sliva and Plyn, *Voda Zdravotní Tech.* **18**, 49-51(1938); *Chim. Zentr.* **1938**, II, 988-9. A suitable app. is described for the detn. of small amts. of H_2S (0.001 vol.-%) in illuminating gas with the use of $Pb(OAc)_2$ paper. By means of an app. similar to a shortened manometer the gas is passed over filter paper impregnated with 10% $Pb(OAc)_2$ at the rate of 150 l./hr. In the presence of 0.01 g. H_2S per cu. m. of gas the paper becomes definitely colored and the concn. of the H_2S can be estd. from the intensity of color. When larger amts. of H_2S are present in the gas, a gas pipet of 0.5–1.5 l. capacity is filled with the gas, the temp. and pressure detd., and then 25 cc. of a 5% soln. of $Cd(OAc)_2$ introduced into the pipet. After thorough shaking, the pipet is emptied into a flask and 3 drops concd. HOAc, 25–50 cc. 0.01 *N* I soln. and 10 cc. dil. H_2SO_4 added. After the soln. has stood for 5 min. it is titrated with 0.01 *N* $Na_2S_2O_3$. W. A. Moore

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

1ST AND 2ND ORDERS



PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

Ca

21

Direct cooling of crude oven gas at the oven and its influence on secondary cooling and recovery of ammonia liquor. Vitězslav Sliva. *Plyn, Voda zdravotní Tech.* 21, 1-6(1941); *Chem. Zentr.* 1941, I, 3466.—Water requirement for sprays in the gas off-take pipes is 3.3 to 5 l. per cu. m. for cooling gas from about 600° down to 80-95°. This vol. of water would not be sufficient if it were not for the heat of vaporization. About 0.4 kg. of water per cu. m. of gas or about 8% of the water, is carried away. A disadvantage of the use of NH_3 liquor for this purpose is that NH_3 is freed, and the NH_3 content of the gas increases to 2- or 3-fold. This overloads the NH_3 scrubber, so that the ammonia-liquor concn. falls and the NH_3 content of the purified gas exceeds permissible limits. Hence the NH_3 liquor from scrubbers and coolers should be kept sep. from the water sprayed into the oven offtake, and air coolers should be used to keep the vol. down, and thus increase the NH_3 concn. Condensate from the foul mains and the air cooler should be added to the spray water. Operating data for concn. and volume of NH_3 liquor are compared with calcd. values.

R. W. Ryan

COMMON ELEMENTS

COMMON VARIABLES INDEX

OPEN

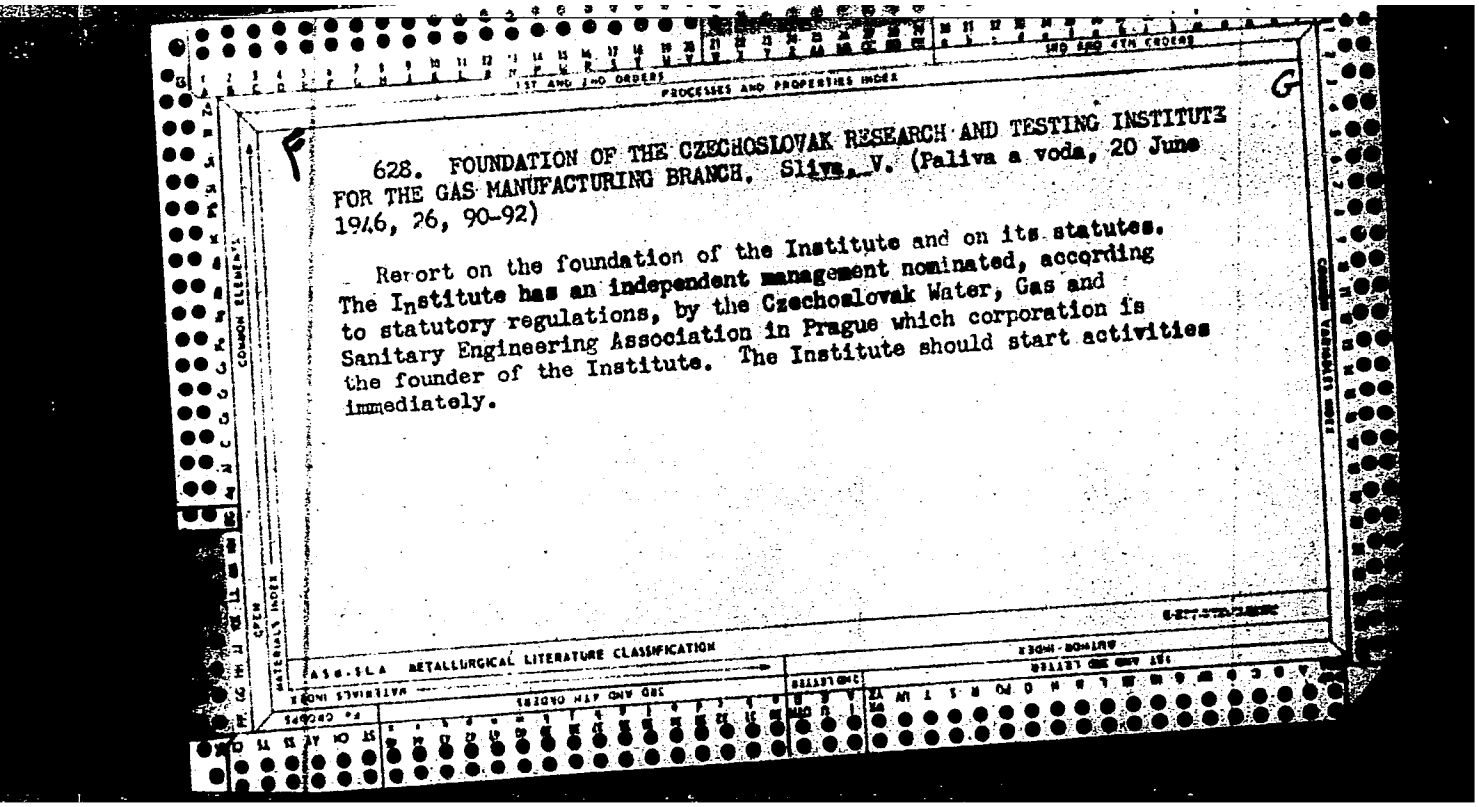
MATERIALS INDEX

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

AUTHOR INDEX

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

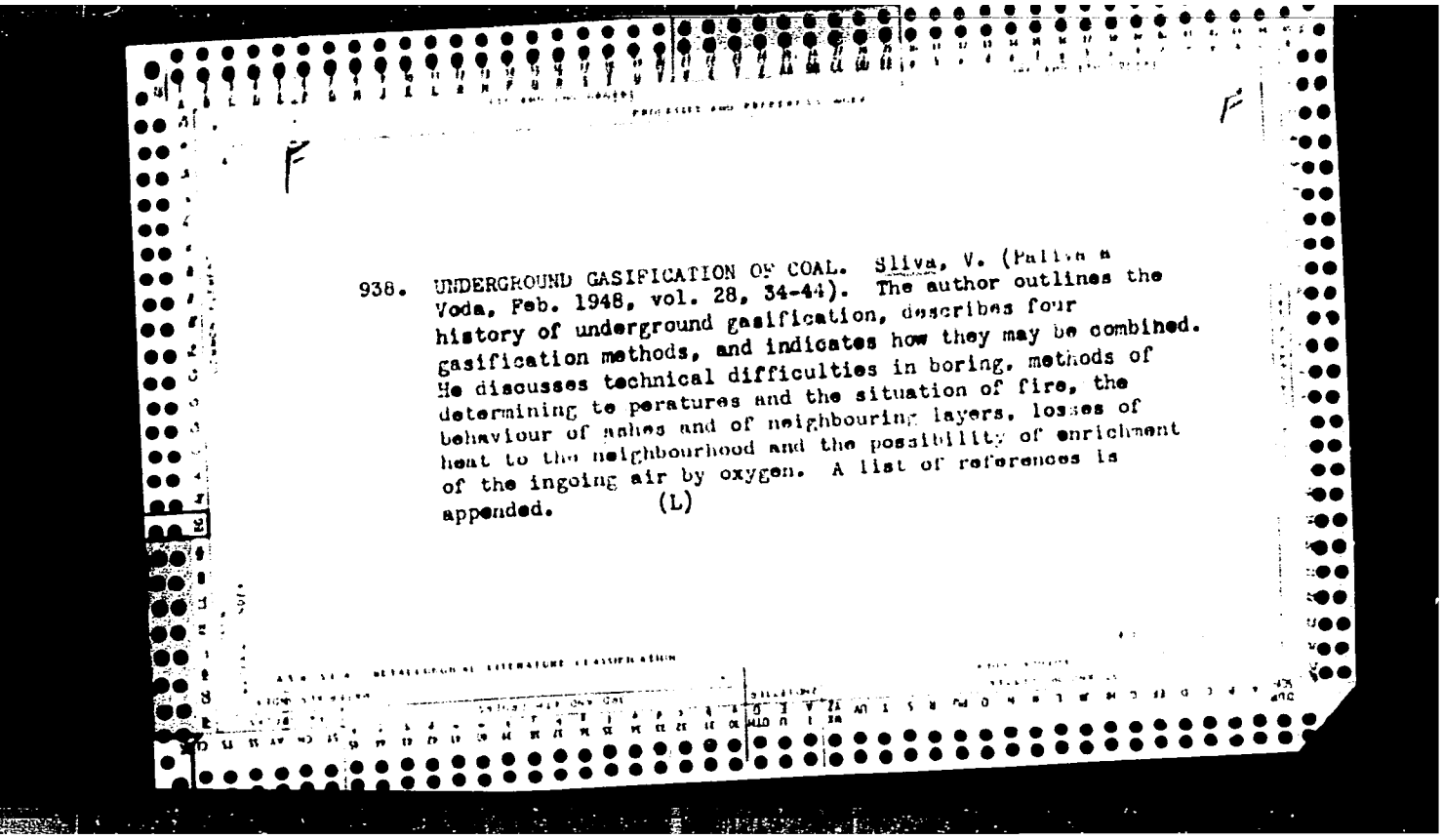


628. FOUNDATION OF THE CZECHOSLOVAK RESEARCH AND TESTING INSTITUTE FOR THE GAS MANUFACTURING BRANCH. Slivs, V. (Paliva a voda, 20 June 1946, 26, 90-92)

Report on the foundation of the Institute and on its statutes. The Institute has an independent management nominated, according to statutory regulations, by the Czechoslovak Water, Gas and Sanitary Engineering Association in Prague which corporation is the founder of the Institute. The Institute should start activities immediately.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

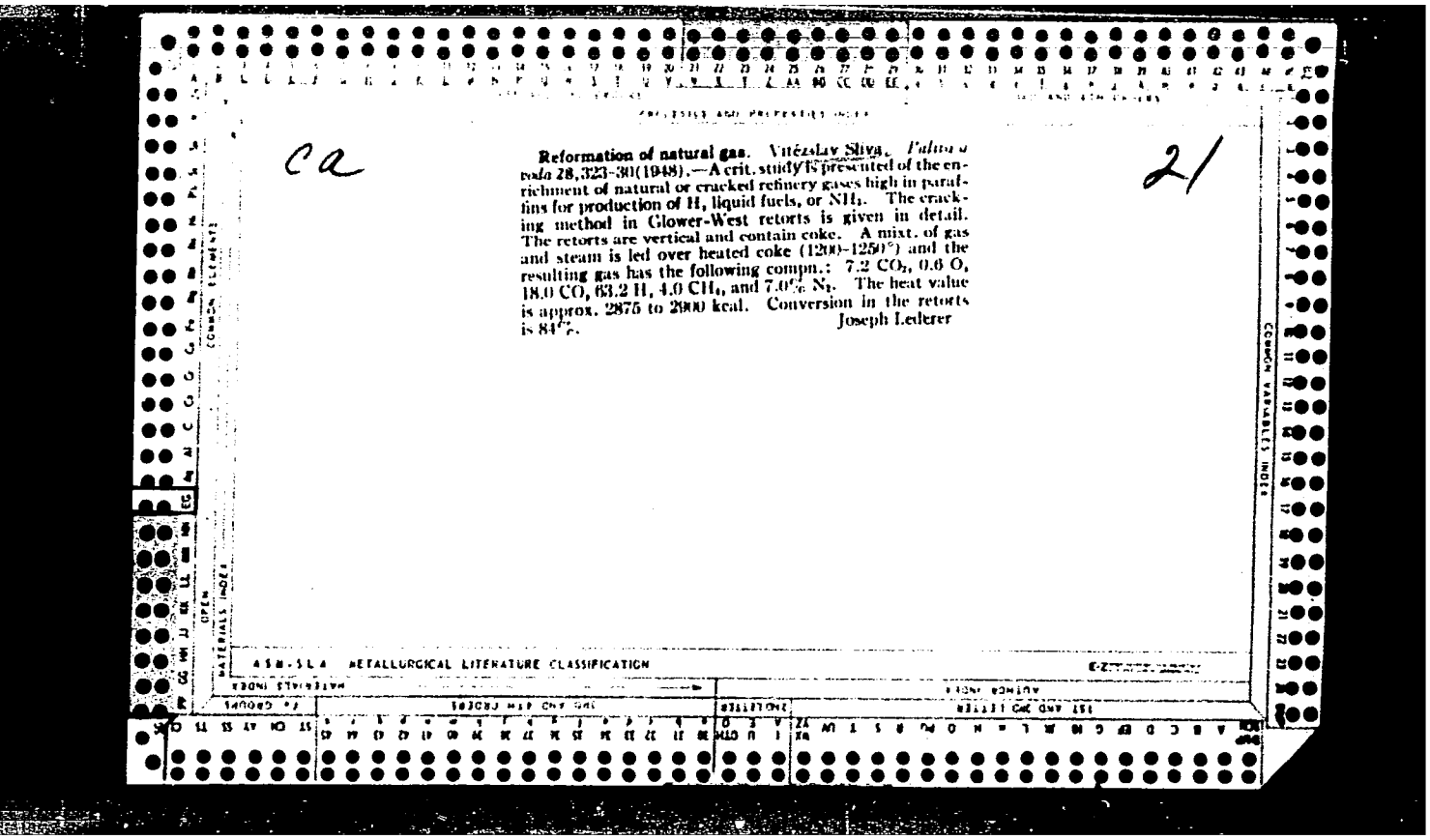
"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6



938. UNDERGROUND GASIFICATION OF COAL. Sliva, V. (Palivo a Voda, Feb. 1948, vol. 28, 34-44). The author outlines the history of underground gasification, describes four gasification methods, and indicates how they may be combined. He discusses technical difficulties in boring, methods of determining temperatures and the situation of fire, the behaviour of ashes and of neighbouring layers, losses of heat to the neighbourhood and the possibility of enrichment of the ingoing air by oxygen. A list of references is appended. (L)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6



Ca

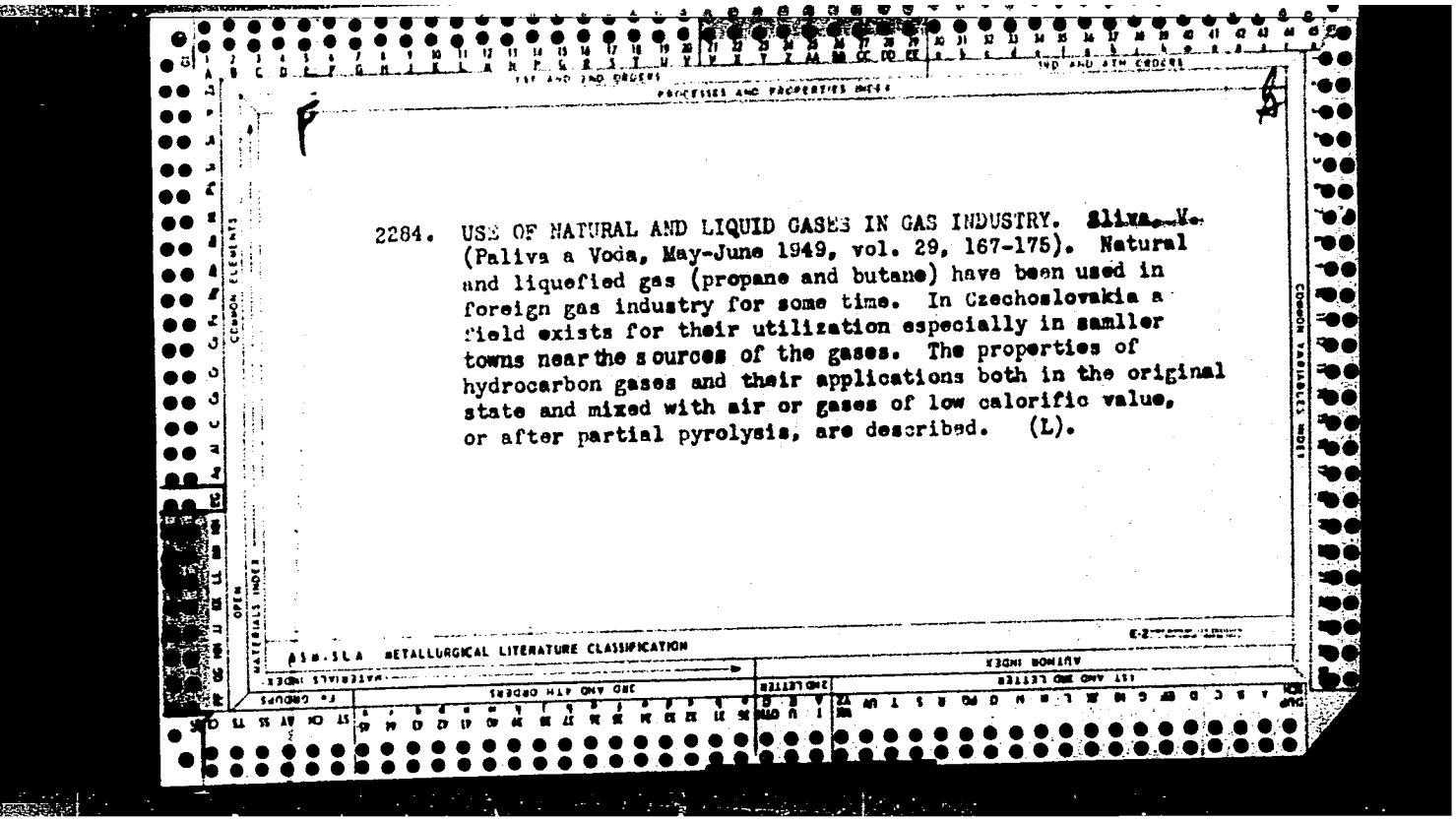
21

Reformation of natural gas. Vítězslav Sliva. *Palivá a voda* 28,323-30(1948).—A crit. study is presented of the enrichment of natural or cracked refinery gases high in paraffins for production of H, liquid fuels, or NH_3. The cracking method in Glower-West retorts is given in detail. The retorts are vertical and contain coke. A mixt. of gas and steam is led over heated coke (1200–1250°) and the resulting gas has the following compn.: 7.2 CO_2, 0.6 O_2, 18.0 CO, 63.2 H, 4.0 CH_4, and 7.0% N_2. The heat value is approx. 2875 to 2900 kcal. Conversion in the retorts is 84%. Joseph Lederer

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

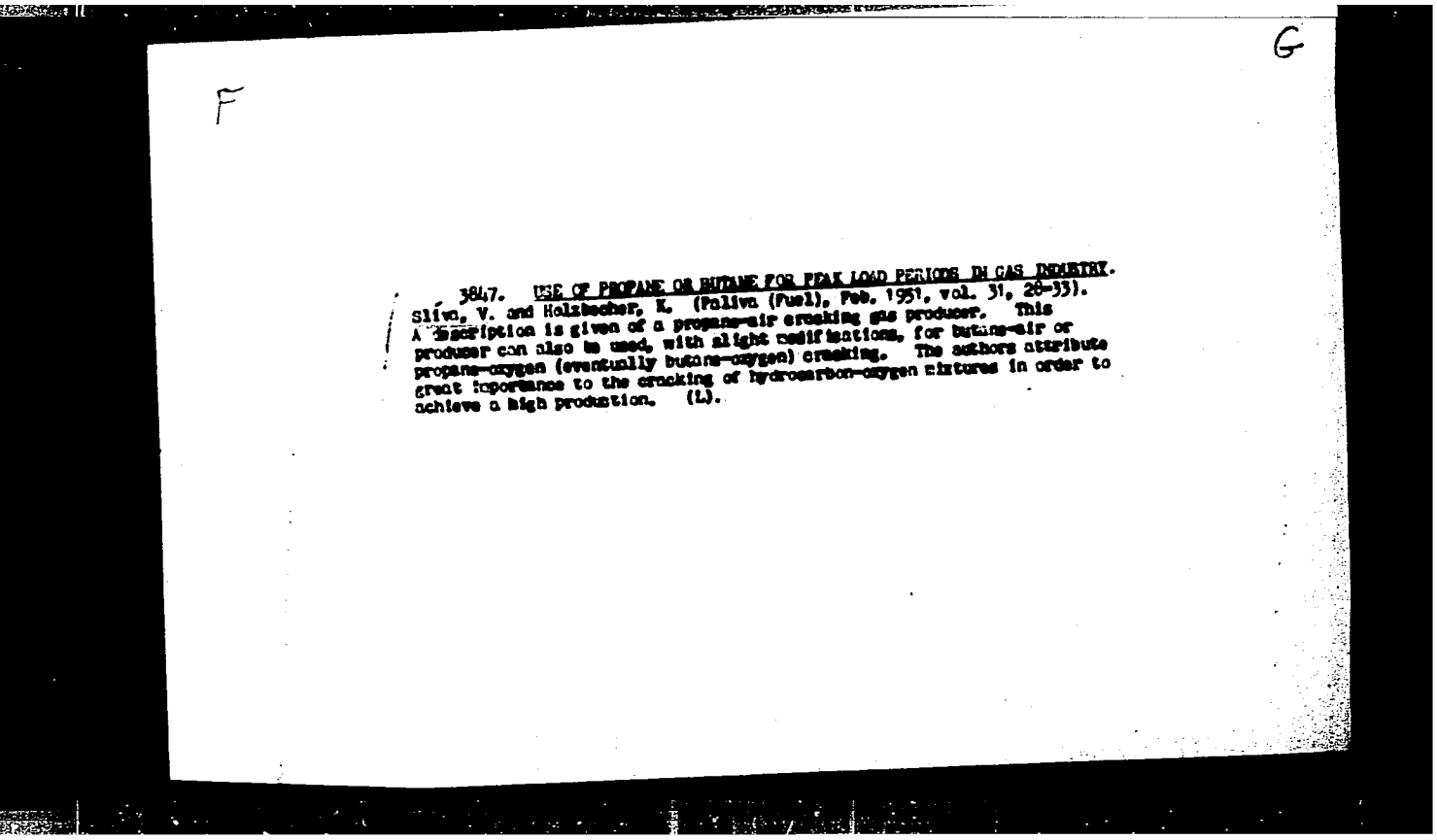
"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6



2284. USE OF NATURAL AND LIQUID GASES IN GAS INDUSTRY. Sliva, V. (Paliva a Voda, May-June 1949, vol. 29, 167-175). Natural and liquefied gas (propane and butane) have been used in foreign gas industry for some time. In Czechoslovakia a field exists for their utilization especially in samller towns near the sources of the gases. The properties of hydrocarbon gases and their applications both in the original state and mixed with air or gases of low calorific value, or after partial pyrolysis, are described. (L).

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6



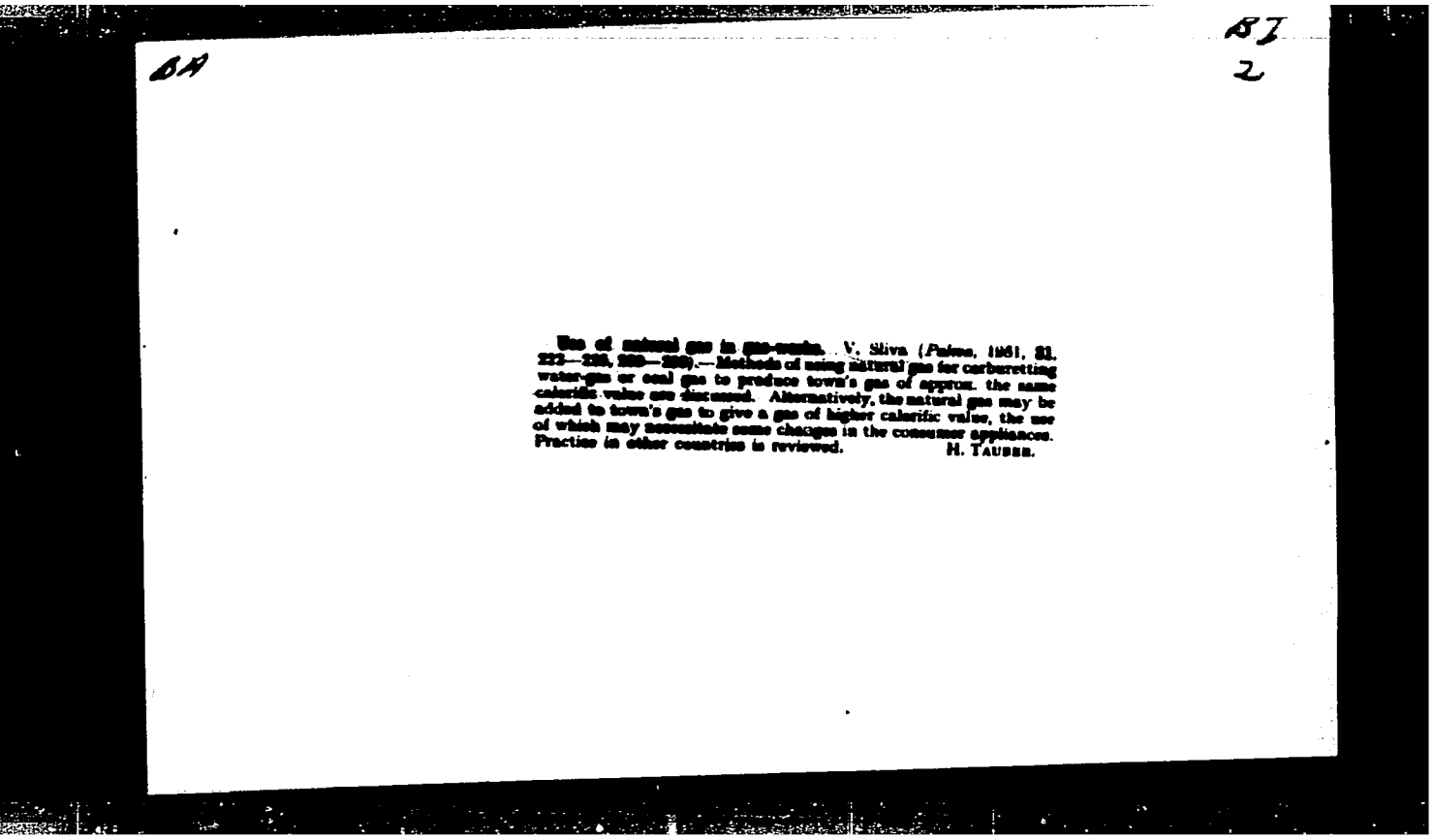
F

G

3847. USE OF PROPANE OR BUTANE FOR PEAK LOAD PERIODS IN GAS INDUSTRY.
Sliva, V. and Holzbecher, K. (Paliva (Fuel), Feb. 1951, vol. 31, 28-33).
A description is given of a propane-air cracking gas producer. This producer can also be used, with slight modifications, for butane-air or propane-oxygen (eventually butane-oxygen) cracking. The authors attribute great importance to the cracking of hydrocarbon-oxygen mixtures in order to achieve a high production. (L).

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6



BA

BI
2

Use of natural gas in gas-works. V. Sliva (*Palma*, 1951, 31, 222—[illegible], [illegible]—[illegible]).—Methods of using natural gas for carburetting water-gas or coal gas to produce town's gas of approx. the same calorific value are discussed. Alternatively, the natural gas may be added to town's gas to give a gas of higher calorific value, the use of which may necessitate some changes in the consumer appliances. Practice in other countries is reviewed. H. TAUBER.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVA - V

Directives for handling of waste waters from carbonization gas works. V. Sliva. *Palivo* 32, 109-13(1953).—Various methods were suggested to purify waste waters from gas works processes. Jos. Lederer

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVA, V.

Riedl, R.; Sliva, V. "New Methods for Storing Large Amounts of Gas." p. 154
(Paliva, Vol. 33, no. 7/8, July/Aug. 1953, Praha)

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

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVA, V. - Paliva - Vol. 35, no. 2, Feb. 1955.

Udo Becher's Handbook of Gas Utilization; a review. p. 64.

SO: Monthly list of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVA

POLAND / Physical Chemistry. Kinetics, Combustion, Explosions, Topochemistry, Catalysis. B

Abs Jour: Ref Zhur-Khimiya, No 16, 1958, 53014.

Author : Tshebyatovsky, Kubitskaya, Sliva.
Inst : Not given.
Title : The Structure and Magnetic Properties of Palladium Contacts with γ-Al_2O_3 as a Carrier.

Orig Pub: Roczn. chem., 1957, 31, No 2, 497-515.

Abstract: Pd-contacts were prepared which did not contain even traces of ferromagnetic substances. Their palladium concentration was 0.45-9.1%. As a carrier, a dimagnetic γ-Al_2O_3 was used. Their magnetic contacts susceptibility (at temperatures

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVA, V.

Main trends in the development of the preparation and coking sector. p. 249.

PALIVA. (Ministerstvo paliv a Ceskoslovenska vedecka technicka spolecnost pro vyuziti paliv pri Ceskoslovenske akademii ved) Praha, Czechoslovakia, Vol. 39, no. 8, August 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959.

uncl.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVA, V., doc., dr.inz.; ODEHNAL, S., inz.

Evaluation of resources from the viewpoint of the gas industry development. Paliva 43 no.8:233-237 Ag'63.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVA, V., inz. dr., doc.

Level and effectiveness of gas consumption in households and public buildings. Paliva 43 no. 12: 361-364 D '63.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 34430-66 T/EWP(t)/ETI IJP(c) JD

ACC NR: AP6026198 SOURCE CODE: CZ/0034/65/000/011/0789/0795

AUTHOR: Dedek, Vladimir (Engineer); Michl, Vladimir--Mikhl', V. (Engineer); Sliva, Milan (Engineer)

ORG: VZKG, n.p., Ostrava

TITLE: Reheating conditions of process and intermediate annealing and their effect on the deep-drawing properties of low-carbon strip steels

SOURCE: Hutnicke listy, no. 11, 1965, 789-795

TOPIC TAGS: low carbon steel, annealing, cold rolling, metal drawing

ABSTRACT: The article reports on an investigation of cold rolled annealed deep-drawing strip steels regarding the feasibility of improving their structural and plastic properties by arrangement of the reheating conditions in the final process annealing as well as by intermediate annealing during the cold rolling. Orig. art. has: 2 figures and 8 tables. [Based on authors' Eng. abstract] [JPRS: 33,732]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 001

Card 1/1

UDC: 621.785.3: 669.14.018.26

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 34942-66 EWP(k)/EWP(h)/EWP(w)/EWP(v)/EWP(t)/EWP(l)/ETI/T JD

ACC NR: AP6026604 SOURCE CODE: CZ/0057/65/000/012/0533/0537

AUTHOR: Sliva, Milan (Engineer); Zidek, Milan (Docent; Engineer; Candidate of sciences)

ORG: Klement Gottwald Vitkovice Iron Works, Ostrava (Vitkovicke zelezarny KG)

TITLE: Influence of the diameter of rolls upon the mechanical properties of cold rolled steel belts

SOURCE: Hutnik, no. 12, 1965, 533-537

TOPIC TAGS: mechanical property, cold rolling, carbon steel, metal deformation

ABSTRACT: The mechanical strength of the steel increases with increasing diameter of the rollers. The difference is greater in steels containing higher amounts of carbon, and increases also with increasing degree of deformation. When the diameter of the rollers changes in the ratio of 8:1, the difference in the strength varies by 4-5,000 kg / mm^2; the difference in steels with high carbon content is approximately twice that. A substantial increase in strength is achieved by increasing the rolling pressures in cases where high carbon content steels have deformation on the order of 40-50%. Orig. art. has: 4 figures and 4 tables. [JPRS: 34,519]

SUB CODE: 11, 20 / SUBM DATE: none / ORIG REF: 002

Card 1/1

0916 2300

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

GOL'DSHTEYN, L.Ya.; SLIVA, Ya.

Analysis of the mineralogical composition of fused protland-cement clinkers. Trudy Giprotsement no.24:26-35 '62. (MIRA 16:4)

(Cement clinkers--Analysis)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

KOZLOVSKIY, G.I. [Kozlovs'kyi, H.T.]; NOVIKOVA, Z.M. [Novykova, Z.M.]; GOLUBCHIK, S.A. [Holubchyk, S.A.]; SLIVA, Yu.D. [Slyva, IU.D.]

Processing of nonmalt products with high protein content in the brewing industry. Khar.prom. no.1:41-44 Ja-Mr '62. (MIRA 15:8)

1. UkrNDIKhP (for Kozlovskiy, Novikova). 2. Khar'kovskiy pivovarenyy zavod No.1 (for Golubchik, Sliva).
(Brewing)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVAK, I. M.

Slivak, I. M.

"Planning the Limits of the Region of Attraction of Automobile Roads." Min Higher Education USSR. Khar'kov Automobile and Road Inst. Khar'kov, 1955. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya letopis', No. 27, 2 July 1955

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

LAGUNOV, L.Ya.; SLIVAK, I.M.

Organizing automobile traffic surveys. Avt.dor. 20 no.8:21-22 Ag '57. (MIRA 12:4)

(Traffic surveys)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVAK, I.M., kand.tekhn.nauk

Actual and calculated traffic intensity. Avt.dor. 21 no.11:28-29 N '58. (MIRA 11:12)

(Traffic engineering)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVAK, I., kand. tekhn. nauk

Methods and results of inspecting intercity transportation. (MIRA 11:12)
Avt. transp. 36:6-7 D '58.
(Transportation, Automotive)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVAK, I., kand.tekhn.nauk

Motorbus transportation in districts of the mining industry.
Avt.transp. 38 no.1:14-15 Ja '60. (MIRA 13:5)
(Donets Basin--Motorbus lines)
(Lvov-Volyn' Basin--Motorbus lines)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVAK, I.M., kand.tekhn.nauk

Economic efficiency of motorbus traffic in mining regions. (MIRA 14:12)
Trudy MIEI no.16:85-90 '61.
(Motorbus lines--Cost of operation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVAK, I.M., kand.tekhn.nauk; SHEYNIS, G.I.

District planning and design of road network. Avt.dor. 26 no.9: 21 S '63. (MIRA 16:10)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVAK, I.M., kand.tekhn.nauk

Coordinate the work of road constructors and city builders.
Avt.dor. 26 no.10:31-32 O '63. (MIRA 16:11)

1. Uchenyy sekretar' sektsii avtomobil'nykh dorog Soveta po koordinatsii nauchnykh rabot Akademii stroitel'stva i arkhitektury UkrSSR.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

USPENSKIY, V.[illegible], glav. red.; TER-ARUTYUNYANTS, G.O., zam. glav. red.; AYR-BABAMYAN, Ya.A., red.; BOGORAD, D.I., red.; KAPLAN, L.Z., inzh., red.; MALYSHENKO, O.A., red.; MEZENTSEV, I.V., red.; BONDARENKO, [illegible].I., red.; NELYUBIN, K.P., red.; OREKHOV, V.M., red.; POGREBOV, S.N., red.; SLIVAK, I.M., kand. tekhn. nauk, red.; STANISLAVSKIY, A.I., red.; SLUTSKIY, G.M., red.; SOLOFNENKO, N.A., red.

[Transportation and engineering facilities of cities; an aid to designers] Transport i inzhenernoe oborudovanie gorodov; v pomoshch' proektirovshchiku. Kiev, Budivel'nyk, 1964. 100 p. (MIRA 18:5)

1. Ukrainskiy gosudarstvennyy institut proyektirovaniya gorodov. 2. Gosstroy USSR (for Kaplan, Orekhov). 3. Gosstroy USSR (for Pogrebov). 4. Kiyevskiy inzhenerno-stroitel'nyy institut (for Slivak). 5. Kiyevskiy Gosudarstvennyy institut proyektirovaniya gorodov (for Uspenskiy, Ter-Arutyunyants, Malyshenko, Mezentsev, Bondarenko). 6. Leningradskiy Gosudarstvennyy institut proyektirovaniya gorodov (for Nelyubin). 7. TSentral'nyy nauchno-issledovatel'skiy i proyektnyy institut po gradostroitel'stvu, Moskva (for Solofnenko). 8. Kiyevskoye upravleniye po proyektirovaniyu zhilishchno-grazhdanskogo i kommunal'nogo stroitel'stva (for Slutskiy).

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVANOVA, A. F.

"Results of Introducing the Immediate System of Operation in Interurban Telephone Communications," Vest. svyazi, No.8, p. 20, 1953

Chief, Production Control Service of TsMTS

Translation No. 544, 30 Apr 56

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVANOVA, N.M.

Approximate calculation of the standard isobar free energies of formation of selenates. Zhur. neorg. khim. 8 no.8:1826-1830 Ag '63. (MIRA 16:8)

(Selenates--Thermodynamic properties)
(Heat of formation)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVANSKAYA,A.G., kandidat tekhnicheskh nauk; CHUNIKHIN,A.A., dotsent, kandidat tekhnicheskikh nauk

Calculation of the dynamic tractive characteristic of the direct-current electromagnet. Trudy MEI no.15:188-207 '55. (MLRA 8:11)

1. Kafedra elektricheskikh apparatov Moskovskogo ordena Lenina energeticheskogo instituta imeni V.M.Molotova
(Electromagnets)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

LAPOTYSHKIN, N.M.; SLIVCHANSKAYA, V.V.; KOKAREKO, N.M.; FADEYEV, P.V.; PRAVDINA, T.E.

Rolling electrical steel slabs prepared by continuous casting on strip mills with hot reelers. Biul.TSIICHM no.4:38-40 '61. (MIRA 14:10)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (for Lapotyshkin, Slivchanskaya). 2. Novolipetskiy metallurgicheskiy zavod (for Pravdina).
(Rolling (Metalwork))

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVCHANSKAYA, V. V.

S/133/62/000/001/002/010
A054/A127

AUTHORS: Lapotyshkin, N. M., Boychenko, M. S., Candidates of Technical Sciences, Leytes, A. V., Akimova, Ye. I., Slivchanskaya, V. V., Engineers

TITLE: Special features of crystallization in continuous casting

PERIODICAL: Stal', no. 1, 1962, 30 - 33

TEXT: There is no definite opinion concerning the effect of the crystallization rate on the grain structure and chemical composition of continuous castings. To solve this problem, tests were carried out at the TsNIIChM and a new method was applied to determine the crystallization rate, which is based on the distance between the dendrite axes: when the solidification rate is increased, the interaxial distance between secondary dendrites decreases. The tests were carried out with carbon steel and transformer steel. To obtain a clear picture of the dendritic structure, the carbon steels were water-hardened at 950 - 1,050°C and annealed (in water) at 650°C. The crystallization rate at various depths was also checked by introducing the radioactive isotope of sulfur (S^{35}), for "45" and Ст .3 (St.3) steels, poured at a 0.7 m/min rate in crystallizers, 200 x 200 mm

Card 1/4

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

Special features of...

ary cooling) were also studied. In these tests, 4 heats of "45" steel and У 7 (U7) steel were investigated. The increase in temperature during the pouring of U7 steel slightly reduced the crystallization rate. An increase in the pouring rate (from 0.5 to 0.7 m/min) decreased the solidification rate by about 0.3 cm/min. As to the intensity of secondary cooling, it was established that if 2 l/sec cooling water (0.5 l per 1 kg steel) were consumed, the solidification rate somewhat increased, while upon raising the water consumption to 5 l/sec, this had no effect on the average solidification rate. The relation between the crystallization rate in the cross section of the ingot, the structure and the distribution of non-metallic inclusions was studied in 200 x 200 mm continuous castings. The distribution of inclusions depended in the first place on the arrangement of structural zones. The smallest amount of inclusions was found in the fine-grained zone of the skin, while the amount of inclusions increased in the zone of acicular grains and still more in the transient zone between acicular and spheroidal grains. Dendritic liquation was studied in continuous and standard castings of transformer steel with 4.2 - 4.4% Si content, by comparing the microhardness of the dendrite axes and of the interaxial zones. Greater hardness was observed for the interaxial zones than for the axial parts. The differences in ΔH_B indicated the degree of dendritic liquation, which was higher for the standard castings than

Card 3/4

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

Special features of...

for the continuous ones. The ΔH_B values gradually decreased starting from a depth of 60 mm below the surface to the central sections. In continuous castings, [illegible] the dendritic non-homogeneity was lower than in the standard castings. [illegible] 4 figures and 11 references: 7 Soviet-bloc and 4 non-Soviet-bloc. The [illegible] to the English-language publication reads as follows: D. M. Lewis, I. [illegible], Metallurgical Reviews, 1956, v. 1, pt. 1.

Card 4/4

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

ACCESSION NR: AP4014250 S/0133/64/000/002/0128/0131

AUTHORS: Slivchanskaya, V. V.; Itskovich, G. M.; Sautkin, N. I.

TITLE: Structural characteristics of a continuous ingot made of low carbon boiling steel

SOURCE: Stal', no. 2, 1964, 128-131

TOPIC TAGS: steel, melting process, pouring process, continuous pouring, ingot structure, steel ingot surface crust, bubble zone in ingot, ingot central zone

ABSTRACT: This study of continuous steel ingots made of low-carbon boiling steel showed that their structure was characterized by the presence of three zones: the external crust, the bubble zone, and the internal core. The zone of the secondary bubbles and the transition zone were absent. It was established that: 1) different structure of the crust could be obtained by regulating the intensity of metal boiling in the crystallizer; 2) gas bubbles were formed at the border of solid and liquid phases; 3) the channels were formed as the result of liquid movement away from the interdendritic spaces and toward the gas bubble during its emerging; 4) the structure in the region of gas liquefaction proved the periodical nature of crystallization; 5) the layered structure observed in the bubble zone consisted of

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVENKO, V.

The collective can handle everything. Grazhd. av. 19 no.5: 15 My '62. (MIRA 18:6)

1. Sekretar' komiteta Vsesoyuznogo Leninskogo kommunisticheskogo soyuza molodezhi Yuzhno-Sakhalinskogo aeroporta.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

ELIVETS, D.I. (Dnepropetrovsk); MAL'CHENKO, V.P. (Dnepropetrovsk)

Progressive scientist. Put' i put. khoz. 9 no.10:36-37 '65.
(MIRA 18:10)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVETS, D.P.; KOZACHENKO, A.D., inzh. (Dnepropetrovsk)

Frogs have to be rectilinear. Put' i put. khoz. 9 no.12:12 '65.
(MIRA 19:1)

1. Nachal'nik puteobsledovatel'skoy stantsii, Dnepropetrovsk (for Slivets).

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

DOBRE, Gh., ing.; CENUSA, C., ing.; SLIVILESCU, M., ing.

Aspects of the coal industry in Poland recorded during the visit of a group of Rumanian specialists. Rev min 13 no.9:429-436 S '62.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

GRIBKOV, Valentin Alekseyevich; GRIGOR'YEV, Pavel Vasil'yevich; SARIN, Valeriy Ivanovich; SLIVIN, Grigoriy Andreyevich; CHERNYASHEVETS, R.G., inzh., red.; BOBROVA, Ye.N., tekhn.red.

[Narrow-gage TU2 diesel locomotive] Uzkokoleinyi teplovoz TU2. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 222 p. (MIRA 12:1)
(Locomotives)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

TRUKHMANOV, L.L., konstruktor; SLIVIN, G.A., konstruktor

Eliminating the malfunction of three-rotor snow plows. Put' i put.khoz. 4 no.2:38-39 F '60. (MIRA 13:5)
(Railroads--Snow plows)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVIN, P

Freezer Plant

Sovnarkhoz USSR Discusses Specialization in Machine Tool Production

The following persons participated in the discussion of the reports:

P Slivin, Director of the Freezer Plant in Moscow

(Ekonomicheskaya Gazeta, 6 Jul 63)

SO: CIA, FDDS #4843, Survey of the Soviet Press (319), 22 Jul 63, OFFICIAL USE ONLY.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVIN, Yu.A.; KHEYFETS, M. Ye.

Method for precise determination of pendulum oscillation periods. Trudy TSNIIGAIK no.139:89-101 '60. (MIRA 14:7)
(Pendulum)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

GEREMBURG, L.A.; SLIVIN, Yu.A.; KHEYFETS, M.Ye.

Expeditionary quartz chronometer manufactured at the Gravimetric Laboratory of the Central Scientific Research Institute of Geodesy, Aerial Photography, and Cartography. Trudy TSNIIGAiK no.139:121-134 '60. (MIRA 14:7)
(Chronometer)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 34901-65 EWT(1)/EWT(m)/EWP(w)/EWG(v) Pe-5/Po-4/Pq-4/Pg-4 EM/GW

ACCESSION NR: AT5006344 S/2547/64/000/159/0061/0078

AUTHOR: Slivin, Yu. A.

TITLE: Photoelectric observation of the period and amplitude of oscillation of a pendulum

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aerosyemki i kartografii. Trudy, no. 159, 1964. Issledovaniya po gravimetrichesk priborostroyeniyu (Research on gravimetric instrument manufacture), 61-78

TOPIC TAGS: photoelectron multiplier, pendulum motion, pendulum mechanics, amplitude calibration, light amplifier, cascade generator

ABSTRACT: The author reviews previous efforts by various scientists in measuring the motion of a pendulum, all of which require computation work to reduce the measurements. The photoelectric method based on the Vening-Meinez principle was first developed in 1961 at TsNIIGAiK. This method is clarified by describing the functions of the main components of the apparatus: optical amplification, conversion of a light pulse from the pendulum into an electrical impulse, forming cascades generating the trigger pulse, the trigger circuit, the square wave signal generator used for calibration of the pendulum's motion, the electronic computing

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 34901-65

ACCESSION NR: AT5006344

5

device, as well as the functional interrelationship of all of these components. The apparatus was tested in the laboratory using a simulated pendulum. An instrumental error due to mismatched electron tubes was revealed, however after further refinements the error in the measurement of the period of oscillation will be of the order of $\pm 6\text{-}7 \times 10^{-9}$ sec. The use of the photoelectric method will considerably reduce the amount of computation required to reduce the data obtained in pendulum investigations and geophysical determinations at gravimetric stations. The apparatus was designed by Engineer N. A. Gusev and Senior Technician Yu. A. Moiseyev. The final adjustments and operation of the apparatus were done by Senior Technicians E. I. Gamayev, L. I. Klimov and U. I. Yermakov. Orig. art. has: 4 formulas, 15 figures, 1 table.

ASSOCIATION: Gravimetricheskaya laboratoriya tsentral'nogo nauchno-issledovatel'skogo instituta geodezii aeros"yemki i kartografii (Gravimetric Laboratory of the Central Scientific Research Institute of Geodesy, Aerosurvey and Cartography)

SUBMITTED: 00 ENCL: 00 SUB CODE: ME, EM

NO REF SOV: 013 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 34902-65 EWT(1)/EWT(m)/EWG(v)/EWP(w) Pe-5/Po-4/Pq-4/Pg-4 EM/GW

ACCESSION NR: AT5006345 S/2547/64/000/159/0079/0084

AUTHOR: Kogan, M. G.; Slivin, Yu. A.

TITLE: Constancy of a single period of oscillation of a gravimetric pendulum

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aerosyemki i kartografii. Trudy, no. 159, 1964. Issledovaniya po gravimetricheskomu priborostroyeniyu (Research on gravimetric instrument manufacture), 79-84

TOPIC TAGS: pendulum mechanics, pendulum motion, gravimetric analysis, oscillation amplitude, oscillation equation, photoelectric method, amplitude calibration

ABSTRACT: Improvements in experimental techniques have resulted in a considerable increase in the time resolution of the motion of a pendulum. The uniformity of a single period of oscillation of the pendulum becomes an important factor in determining the observation time. The article presents a method of observing a single period of the oscillation of a pendulum which was developed at the gravimetric Laboratory of TsNIIGAiK. This was achieved by calibrating the pendulum's period of oscillation on an oscilloscope using a 1 kilocycle per second calibration signal as well as other fixed frequencies. The author describes the stability control of the frequency of the calibration signal and the accuracy of photoelectric detector.

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 34902-65
ACCESSION NR: AT5006345

The Vening-Meinez method was used during the observations. The oscilloscope's sweep signal was synchronized with the 1, 10 and 100 kc output of a number 7 quartz chronometer in the gravimetric laboratory of the institute with a stability of 1 part per $3 \cdot 10^{-8}$. Thus the rms value of the fluctuation during one period of the pendulum is ±51 μsec for half-second period pendulums and ±25 μsec for 1/4-second period pendulums. Orig. art. has: 3 figures, 4 tables, 1 formula.

ASSOCIATION: Gravimetricheskaya laboratoriya tsentral'nogo nauchno-issledovatel'skogo instituta geodezii, aeros"yemki i kartografii (Gravimetric Laboratory, Central Scientific Research Institute of Geodesy, Aerosurvey and Cartography)

SUBMITTED: 00 ENCL: 00 SUB CODE: ME, EC

NO REF SOV: 001 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

S/0286/64/000/009/0079/0079

ACCESSION NR: AP4036838

AUTHOR: Kheyfets, M. Ye.; Slivin, Yu. A.

TITLE: A method for determining the amplitude of pendulum oscillations and a device for carrying out this method. Class 42, No. 162329

SOURCE: Byul. izobr. i tovar. znakov, no. 9, 1964, 79

TOPIC TAGS: pendulum, oscillation, pendulum oscillation, oscillation amplitude, pendulum oscillation amplitude, amplitude determination, oscillation amplitude determination, pendulum oscillation amplitude determination

ABSTRACT: 1. This author's certificate introduces a method for determination of the amplitude of pendulum oscillations with the use of a photocell which fixes the moments of passage of the pendulum in various elongation angles, the linear or angular differences of which are known. The commands for closing the relay which moves the shutter which opens the slots corresponding to the known elongation angles are transmitted when the pendulum passes through the equilibrium position.

2. A device for carrying out the described method. In order to make it possible to measure the amplitude photoelectrically with the photoelectric determination of the

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

ACCESSION NR: AP4036838

pendulum oscillation periods, two additional slots are cut in the diaphragm which covers the phototube cathode, symmetrical with the slots which are used for determination of the pendulum oscillation period.

ASSOCIATION: none

SUBMITTED: 16Apr63 DATE ACQ: 02Jun64 ENCL: 00

SUB CODE: EC NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

KOGAN, M.G.; [illegible]IVIN, Yu.A.

Concerning the constancy of the period of a single oscillation of a gravimetric pendulum. Trudy TSNIIGAIK no.159:79-84 '64.
(MIRA 17:12)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 60218-65 EWT(1)/EWG(v) Po-4/Pe-5/Pq-4/P -4 GW

ACCESSION NR: AP5019055 UR/0286/65/000/012/0083/0083

AUTHORS: Kheyfets, M. Ye.; Malakhov, B. M.; Slivin, Yu. A.; Sinyagovskiy, B. P.; Yefimov, B. V.

TITLE: A method for measuring the force of gravity at sea. Class 42, No. 172068

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 83

TOPIC TAGS: gravitation, gravitation field, gravity acceleration, gravimeter

ABSTRACT: This Author Certificate presents a method for measuring the force of gravity at sea with a gravimetric apparatus stabilized in the plane of the absolute horizon. The apparatus moves in respect to the ship under the influence of the impinging horizontal accelerations. To simplify the compensating devices, to improve the accuracy of measurements taken with the apparatus, and to make the operations possible in rough seas, the gravimetric apparatus (the sensitivity of which to the fluctuating horizontal gravity accelerations changes in various directions from zero to some maximum value) is so oriented that the direction of its maximum sensitivity to the horizontal acceleration becomes parallel to the greatest component of the ship's horizontal accelerations. The apparatus is then moved only in this direction under the action of the gauges indicating the horizontal

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 60218-65

ACCESSION NR: AP5019055

acceleration and its first derivative. The gauges are placed on the apparatus and on its unstabilized support.

ASSOCIATION: none

SUBMITTED: 14May64 ENCL: 00 SUB CODE: ES, IE

NO REF SOV: 000 OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 62837-65 EWT(1)/EWG(v) Po-4/Pe-5/Pq-4/Pg-4 GW

ACCESSION NR: AP5019054 UR/0286/65/000/012/0083/0083
550.831

AUTHOR: Slivin, Yu. A.; Kheyfets, M. Ye. 32 B

TITLE: A pendulum for gravimetric measurements. Class 42, No. 172067

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 83

TOPIC TAGS: gravimetric measurement, measuring instrument, pendulum

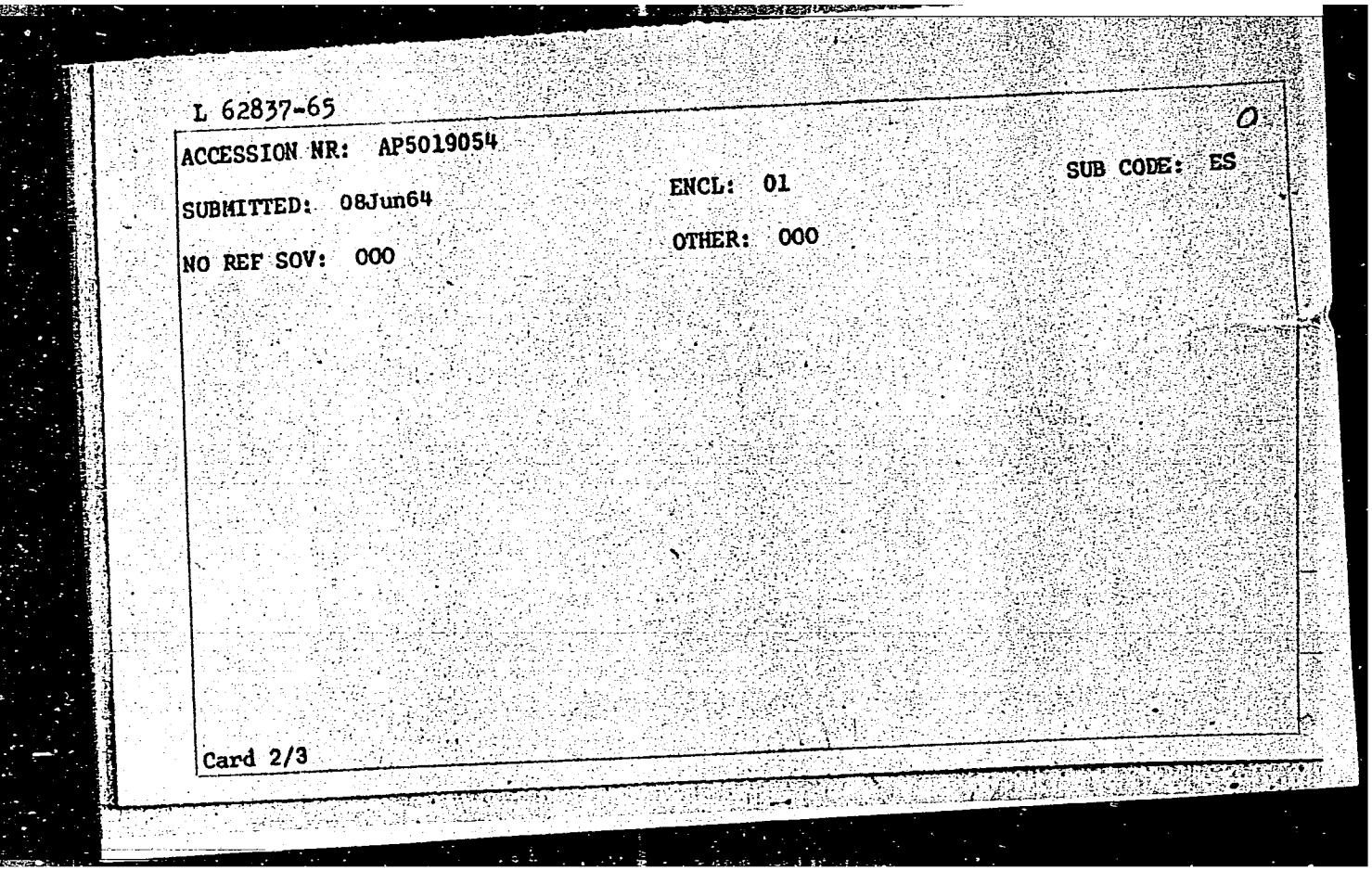
ABSTRACT: This Author's Certificate introduces: 1. A pendulum for gravimetric measurements. The device contains a rod, a stirrup and a lens-shaped metal bob. Measuring accuracy is improved by making the bob of tungsten or alloys of tungsten with a specific weight of more than 18 g/cm^3. 2. A modification of this pendulum in which the tungsten alloy for the bob has the following composition: tungsten--94%; copper--3.2%; nickel--2.8%.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aeros"yemki i kartografii (All-Union Scientific Research Institute of Geodesy, Aerial Photography and Cartography)

Card 1/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6



L 62837-65

ACCESSION NR: AP5019054

SUBMITTED: 08Jun64

ENCL: 01

SUB CODE: ES

NO REF SOV: 000

OTHER: 000

Card 2/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 62837-65

ACCESSION NR: AP5019054

ENCLOSURE: 01

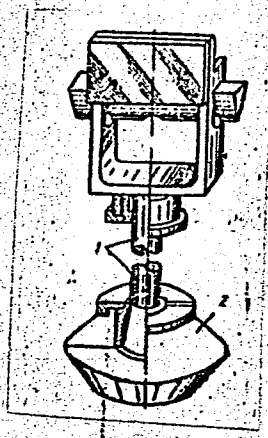


Fig. 1. 1--quartz rod; 2--metal bob

Card 3/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 3541-66 EWT(1) GW

ACCESSION NR: AP5024410 UR/0286/65/000/015/0089/0090

AUTHORS: Kheyfets, M. Ye.; Terekhov, V. P.; Slivin, Yu. A.; Zdobnikov, Ye. T.; Ivanova, A. A.; Berezin, E. M.

TITLE: Device for measuring the gravitational force. Class 42, No. 173435

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 89-90

TOPIC TAGS: gravimeter, submarine

ABSTRACT: This Author Certificate presents a device for measuring the gravitational force from submarines and drifting ice. The device contains three quartz-metal pendulums mounted on the base plate of a thermostated support placed in an arrested Cardan suspension, arresting and locking devices for the pendulums, thermometers, a hygrometer, a triggering lever for each pendulum, a device for applying time marks to the photorecord of the pendulum oscillations, a control panel, and perturbing acceleration detectors. To increase the accuracy of the measurements and to simplify their processing, additional mirrors are mounted on the support plate so that the images of the transmitting diaphragms reflected from the outer pendulums are produced in the focal plane of the objective (see Fig. 1 on the Enclosure). To insure the uniform setting of the pendulums on the

Card 1/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 3541-66
ACCESSION NR: AP5024410

axis of the arresting device, a template is installed which imparts a forward motion to a stop spring. The spring is kinematically coupled to the template and presses the end part of the pendulum knife edge onto a fixed support rigidly coupled to the support plate. For remote control of the pendulums, electric drives are mounted on the support, which are controlled from the panel and are kinematically coupled to the arresting and locking devices and the stop spring. To control the initial amplitudes and phases of the oscillation of the middle pendulum, an additional triggering lever with a driving frame is installed. To maintain the position of the center of gravity of the device when rewinding the film, a compensator is installed. The compensator is in the form of a weight moving with film feed along a screw which is kinematically coupled to the axle of the film spool. To simplify the arresting of the Cardan suspension, the arrestor in the form of a screw with a control wheel clamps the outer ring of the Cardan suspension through a plate of the inner ring to the support on the stand. To record the readings of a mercury thermometer on the common photorecord, an anamorphic adaptor is mounted on the support. Orig. art. has: 1 diagram.

ASSOCIATION: none
SUBMITTED: 19Feb63 ENCL: 01 SUB CODE: ES
NO REF SOV: 000 OTHER: 000
Card 2/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

L 3541-66
ACCESSION NR: AP5024410

ENCLOSURE: 01

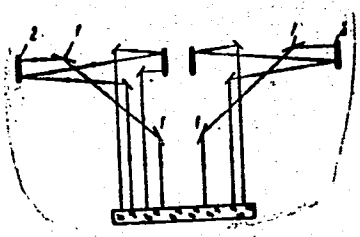


Fig. 1. 1- additional mirrors;
2- outer pendulums

Card 3/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

BABIKOV, Maksim Alekseyevich, doktor tekhnicheskikh nauk; SLIVINSKAYA, A.G., redaktor; FRIDKIN, A.M., tekhnicheskiy redaktor

[Electric apparatus] Elektricheskie apparaty. Moskva, Gos. energ. izd-vo. Pt. 2.. [Low-voltage apparatus] Apparaty nizkogo napriazheniia. 1956. 376 p. (MIRA 10:1)
(Electric apparatus and appliances)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVINSKAYA, A.G.

112-3-5127

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 3, p. 9 (USSR)

AUTHOR: Slivinskaya, A.G.

TITLE: Permeability of Cylinders and Prisms as a Function of Their Shape (Pronitsayemost' formy tsilindrov i prizm)

PERIODICAL: Tr. Mosk. energ. in-ta, 1956, Nr 16, pp. 67-81

ABSTRACT: The values of the coefficient of demagnetization available in literature pertain to comparatively long rods. The search for materials possessing a high value of coercive force made it necessary to conduct investigations of magnetic permeability as a function of shape, or of the coefficient of demagnetization of cylindrical and prismatic rods and hollow cylinders for the value $\ell/\sqrt{S} < 3$ (ℓ - length; S - cross-sectional area). Cylindrical and prismatic rods and hollow cylinders were investigated. The experimental technique is described, and a formula is given for computing the coefficient of demagnetization on the basis of the experimental data, which are presented in tables

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVINSKAYA, A.G.

112-3-5128

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 3, p. 9 (USSR)

AUTHOR: Slivinskaya, A. G.

TITLE: Investigation of the Permeance of Air Gaps Formed by Conical and Truncated Conical Surfaces (Issledovaniye magnitnoy provodimosti zazorov, obrazovannykh konicheskimi i usechennymi konicheskimi poverkhnostyami)

PERIODICAL: Tr. Mosk. energ. in-ta, 1956, Nr 16, pp. 82-98

ABSTRACT: Air gaps formed coaxially by conical and truncated-cone surfaces are often encountered in electromagnetic mechanisms with a plunger reed. A sketch presents both types of cones with dimensions given in letter markings. The nature of the change of the permeance of an air gap is the basic factor determining the characteristics of electromagnetic mechanisms. Formulae found in literature are

Card 1/3

Card

...onical
...proximated
...ate of 0.75. The following
...s the relative permeance of a conical

...25/2000 CIA-RDP86-00513R001651320016-6"

Investigation of the Permeance of Air Gaps Formed by Conical and Truncated Conical Surfaces (Cont.) 112-3-5128

$$\lambda = \frac{0.786}{\xi \sin^2\alpha} - \frac{0.157}{\sin^2\alpha} + 0.75$$

There are 5 bibliographic entries.

ASSOCIATION: Moscow Institute of Power Engineering (Mosk. energ. in-t) A.V.S.

Card 3/3

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

8(0)

AUTHOR: Slivinskaya, Alla Georgiyevna, Candidate of Technical Sciences, Docent at the Chair for Industrial Electrical Equipment of the Moscow Power Engineering Institute

SOV/161-58-2-19/30

TITLE: Graphical Method for the Determination of the Permeability of Axialsymmetric Air Gaps (Graficheskiy metod opredeleniya magnitnykh provodimostey vozdushnykh zazorov s osevoy simmetriy-ey)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Elektromekhanika i avtomatika, 1958, Nr 2, pp 153 - 160 (USSR)

ABSTRACT: At first, the principles of setting up axialsymmetric fields are given. A method of setting up the diagram of an axial-symmetric field is then shown. The diagram of a homogeneous axialsymmetric field is used in this connection. The equi-potential surfaces become straight lines running parallel with the x-axis. The map of a heterogeneous field differs from that of the homogeneous field in as much as the adjacent lines of force and equipotential lines are no more parallel to each other. The diagram of the heterogeneous field, how-ever, must correspond, in any respect, with that lattice

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

representing the homogeneous field as the aspect ratio (of the box form) of the heterogeneous field must be equal to the aspect ratio of the corresponding boxes of the homogeneous field. That is, the curved rectangles must resemble those the lattice of the homogeneous field. By means of this method and of the control lattice the field diagram of the gap being formed by the flat ends of cylindrical poles was set up. The author then shows the way of determining the value of the permeability by the field diagram. The method given herein permits the determination with fair simplicity and precision, of the permeability of the air gaps that are formed by the axialsymmetric boundary surfaces. There are 7 figures and 2 Soviet references.

ASSOCIATION: Kafedra elektricheskikh apparatov Moskovskogo energeticheskogo instituta (Chair for Electrical Apparatus of the Moscow Power Engineering Institute)

SUBMITTED: January 24, 1958

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVINSKAYA, A. G.

PHASE I BOOK EXPLOITATION SOV/3855

Gordon, Andrey Vladimirovich, and Alla Georgiyevna Slivinskaya

Elektromagnity postoyannogo toka (Direct-Current Electromagnets) Moscow, Gosenergoizdat, 1960. 446 p. Errata slip inserted. 13,000 copies printed.

Ed.: Ye. N. Zeyn; Tech. Ed.: K. P. Voronin.

PURPOSE: This monograph is intended for electrical engineers engaged in design, construction, and investigation of electromagnetic mechanisms, and for personnel working in the field of automation. It may be also useful to students of electrical engineering schools of higher education and universities.

COVERAGE: The monograph describes theoretical problems of operation and design of direct current neutral electromagnets used as actuators in electromagnetic mechanisms. The authors discuss physical processes connected with their operations, and methods of design of all varieties of electromagnets. Chapters I, II, and XI were written jointly by both authors. Chapters III, V, VI, and X were written by A. G. Slivinskaya. Chapters IV, VII, VIII, and

Card 1/9

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

IX were written by A. V. Gordon. The authors thank Docent N. T. Koroban, Candidate of Technical Sciences, and Lt. Col. Ye. N. Zeyn, Engineer. References follow each chapter.

TABLE OF CONTENTS:

Foreword 3

Introduction 9

Ch. I. General Laws of Electromagnet Operation 15
1. Electromagnet operating cycle 15
2. Equations of electromagnet operating cycle 18
3. Transformation of electric energy into magnetic energy 20
4. Strength of electromagnetic pull 25
5. Work produced during electromagnetic pulling action 30
6. Time of operation 33
7. Power consumed by an electromagnet 36
8. Electromagnet basic features 36

Bibliography 38

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

GORDON, Andrey Vladimirovich; SLIVINSKAYA, Alla Georgiyevna; KOROBAN, N.T., kand. tekhn. nauk, retsenzent; ZEYN, Ye.N., inzh.-podpolkovnik, red.

[Polarized electromagnets] Poliarizovannye elektromagnity. Moskva, Energiia, 1964. 119 p. (MIRA 17:11)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVINSKAYA, Alla Georgiyevna; GORDON, Andrey Vladimirovich; KOROBAN, N.T., kand. tekhn. nauk, retsenzent; ZEYN, Ye.N., inzh.-podpolkovnik, red.

[Permanent magnets] Postoiannye magnity. Moskva, Energiia, 1965. 127 p. (MIRA 18:5)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVINSKAYA, Alla Georgiyevna, kand. tekhn. nauk, dotsent

Study of the dynamic traction characteristics of d.c. electromagnets. Izv. vys. ucheb. zav.; elektromekh. 8 no.11:1275-1279 '65. (MIRA 19:1)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVINSKIY, A.

NAZAROV, A.; FARBEROV, Z.; VIKHMAN, E.; SLIVINSKIY, A.; ZAYTSEV, P.

Simplify the apparatus that manages production. Sots.trud no.10:128-134 O '57. (MIRA 10:11)

1. Nachal'nik sborochnogo tsekha Moskovskogo zavoda shlifoval'nykh stankov (for Nazarov). 2. Zamestitel' nachal'nika sborochnogo tsekha Moskovskogo zavoda shlifoval'nykh stankov (for Farberov). 3. Glavnyy inzhener zavoda "Sel'khozdetal'" (for Vikhman). 4. Glavnyy inzhener Kishinevskoy tabachno-fermentatsionnoy fabriki (for Slivinskiy). 5. Glavnyy inzhener Lidskogo zavoda metallicheskogo shirpotreba, Grodnenskaya oblast' (for Zaytsev).
(Industrial organization)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVINSKIY, A.; YEREMEYEV, K.

Shorten the way from the exhibition into production. Inform.biul. VDNKH no.1:18-19 Ja '65. (MIRA 18:3)

1. Predsedatel' sektsii po stroitel'stvu Komiteta Soveta Vystavki dostizheniy narodnogo khozyaystva SSSR i zamestitel' predsedatelya Gosstroya SSSR (for Slivinskiy). 2. Otvetstvennyy sekretar' sektsii po stroitel'stvu Komiteta Soveta Vystavki dostizheniy narodnogo khozyaystva SSSR (for Yeremeyev).

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVINSKIY, A.I.

Experience in manufacturing precast concrete and reinforced concrete structural components for ferrous metallurgical construction in the Ukraine. Bet. i zhel.-bet. no.6:219-227 Je '57. (MLRA 10:11)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury USSR.
(Ukraine--Metallurgical plants) (Precast concrete construction)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SOV/137-58-7-14254

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 43 (USSR)

AUTHOR: Slivinskiy [Slyvynskyy, A.]

TITLE: Construction of Metallurgical Industrial Establishments in USSR (Stroitel'stvo predpriyatiy metallurgicheskoy promyshlennosti) [Budivnytstvo pidpryyemstv metalurhiynoyi promyslovosti] in Ukrainian

PERIODICAL: Bud-vo i arkhitektura. Str-vo i arkhitektura, 1957, Nr 12, pp 3-6

ABSTRACT: A brief description of the development of the metallurgical industry of the Ukraine from 1930 to date is offered. The beginning of the introduction into the construction during the first five-year plan of sectional reinforced concrete, welded metallic structures, and their unification and standardization, also the solution of the problems of construction on sagging and loess-type soils is noted. The work of rebuilding of ruined factories and production units along with the complete reconstruction of production in a number of cases is described. A substantial achievement of the builders is the introduction of welding into all types of steel construction, which in 1949 led to the building of the first welded blast furnace in Europe at the

Card 1/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SOV/137-58-7-14254

Construction of Metallurgical Industrial Establishments in USSR

"Zaporozhstal'" steel plant. A powerful base for the production of building materials and construction was created in the Ukraine. In a record-breaking short period (less than 6 months) blast furnaces were built in a number of plants. Construction of iron-ore mines and mineral dressing plants (kombinats) is being carried out. A number of oxygen units is being built. Work on the transfer of metallurgical plants to natural-gas heating is being done.

A.P.

1. Iron industry--USSR 2. Steel industry--USSR 3. Industrial plants --Construction

Card 2/2

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVINSKIY, A.I.

Constructing ferrous metallurgical enterprises in Krivoy Rog. (MIRA 10:10)
Stroi.prom. 35:22-26 O '57.

1.Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury USSR.

(Krivoy Rog--Building)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVINSKIY, A.I., inzhener; UMANSKIY, Z.M., inzhener.

Using precast reinforced concrete in building casting yards and operation areas of a blast furnace. Stroi.prom. 35 no.2:8-11 F '57. (MLRA 10:3)
(Blast furncaces) (Precast concrete construction)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"

"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6

SLIVINSKIY, A. I.

Organization of construction in the Dnepropetrovsk Economic Council. Stroit. prom. 36 no.6:10-14 Je '58. (MIRA 11:6)

1. Zamestitel' predsedatelya Dnepropetrovskogo sovnarkhoza.
(Dnepropetrovsk Province--Precast concrete construction)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320016-6"