KOTLYAROV, E.V.

Localization of brain tumors by using P^{32} during surgery. Med. rad. 9 no.6:55-67 Je '64. (MIRA 18:2)

1. Kafedra rentgenologii i radiologii (zav.- prof. L.D. Lindenbraten) I Moskovskogo ordena Lenina meditsinskogo imeni Sechenova.

KOTLYAROV, G.G., aspirant

Quality of pulse crop seeds harvested during various ripening phases. Zemledelie 26 no.7:62 Jl '64. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva TSentral'no-chernozemnoy polosy imeni Dokuchayeva.

KOTLYAROV, G.N.

The influence of grasses on the accumulation of organic matter and soil structure. M. M. Suchalkina and G. N. Kotlyarov. *Agrobiologiya* 1640. No. 5, 90-7.—Perennial grass mixtures contribute gluelike materials as root exudations which microbes at the rhizosphere convert into org. colloids endowed with cementing properties. Upon their death the initial decompn. products give again a cementing org. material. The combination of alfalfa and quack grass has increased the org. matter content of a chernozem from 8 to 8.5% after 1 yr. and to 8.9% after 2 yrs. After 4 years the soil contained as much org. matter as a 50-year soil. Different grasses vary in their contribution of org. matter. At the same time the structure of the soil is improved. Single grasses or soil crops do not contribute as much org. matter as mixtures of these. Thus alfalfa alone gave 68.9 cm. of roots per ha. after the 1st year and 89.1 after the 2nd, whereas alfalfa and crested wheat (*Agropyrum cristatum*) gave 109.9 and 150.5 cm. per ha. I. S. Iofe

Inst. Agric. im. V.V. Dokuchayev, Tsilovaya, Voronezh Oblast'

KOTLYAROV, G. P.

Bee Culture - Queen Rearing

Queening the hive. Pchelovodstvo 29, No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.

KOTLYAROV, G.V.

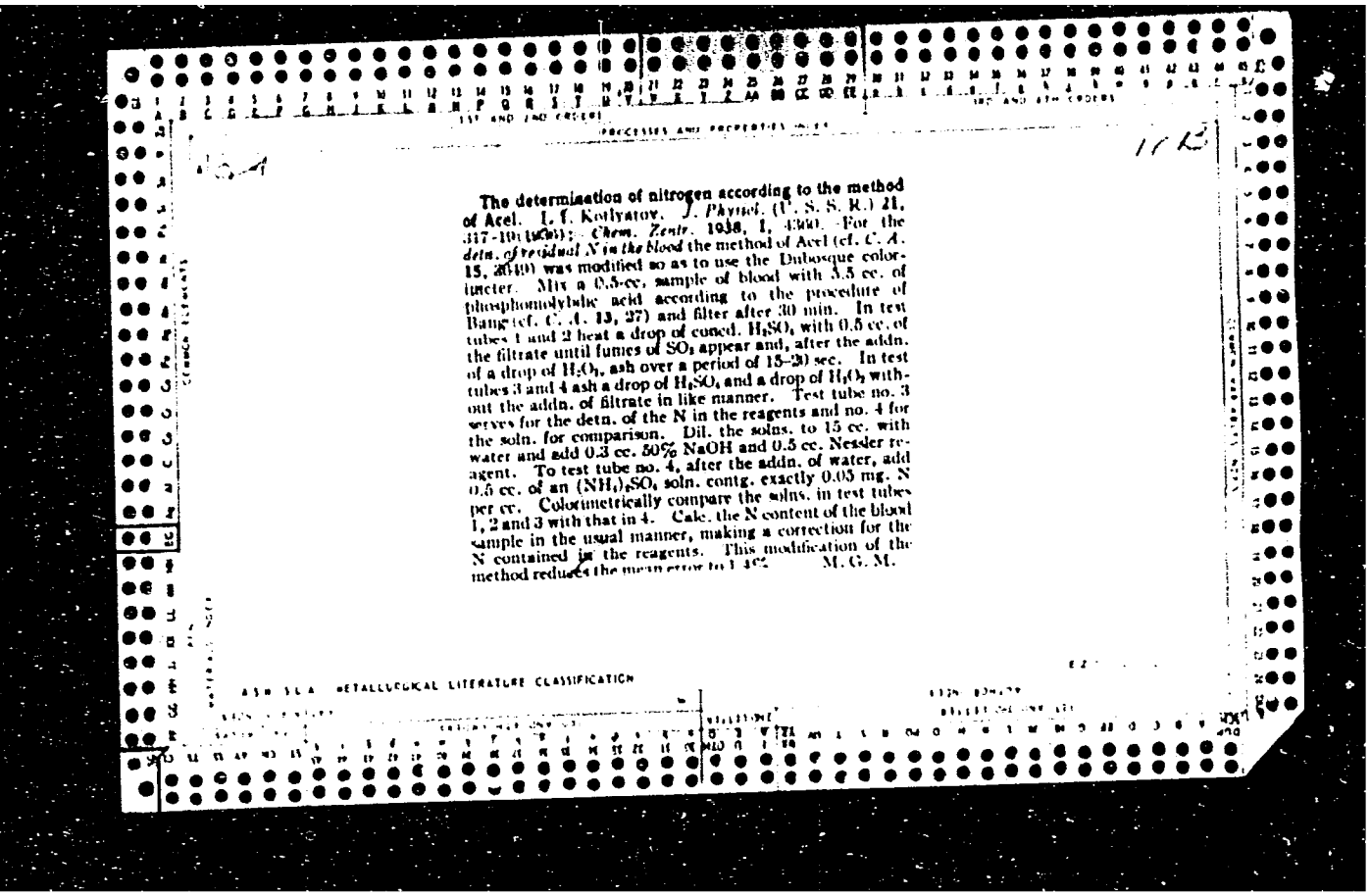
Changes in the design of the head drum bunker of an agglomerating machine. Sbor. rats. predl. vnedr. v proizv. no.2:14 '61. (MIRA 14:7)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat, Lebyazhinskiy rudnik.

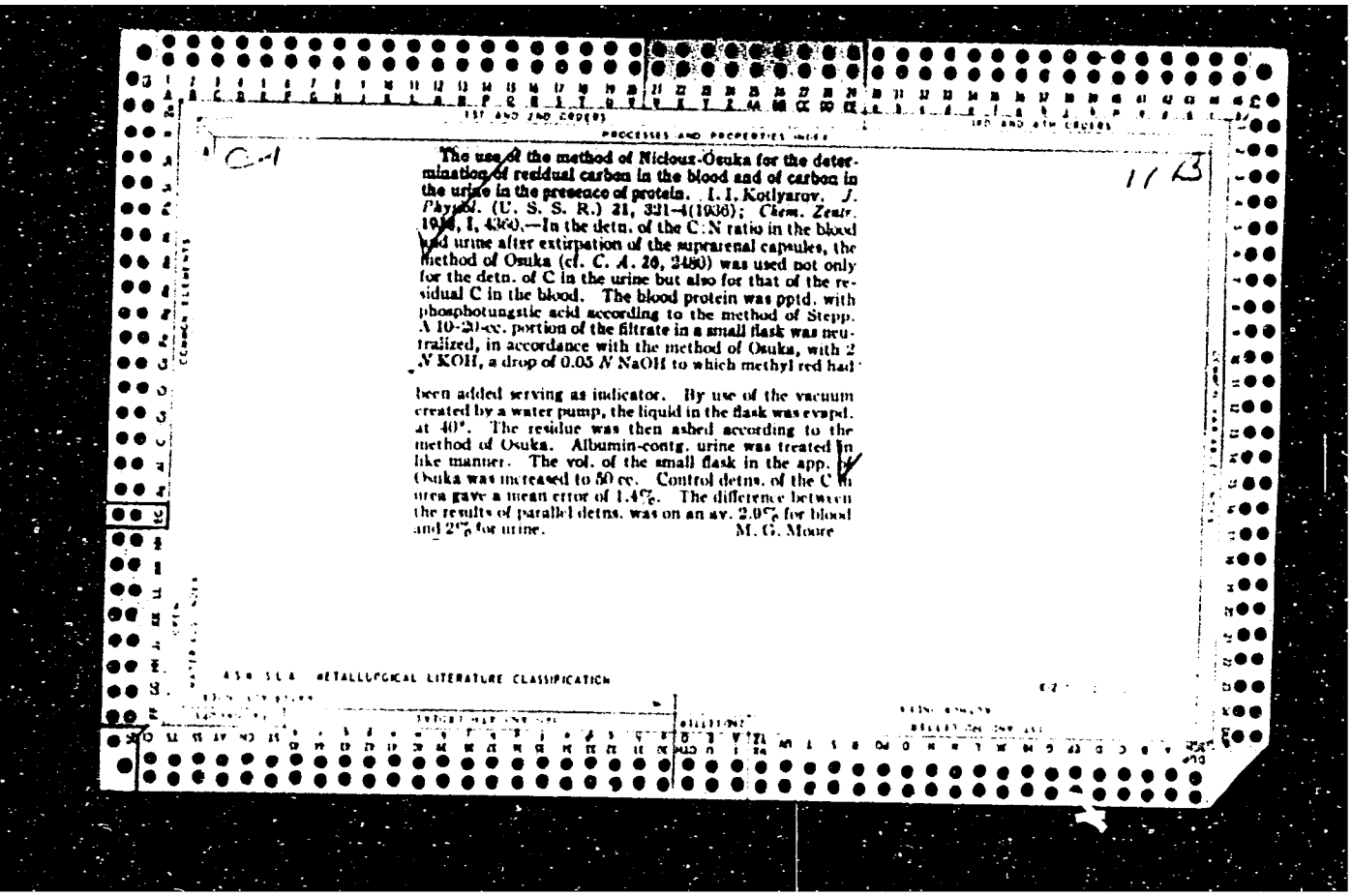
(Ore dressing—Equipment and supplies)

KOTLYAROV, I.F., putevoy obkhodchik (Stantsiya Ostrogozhsk, Yugo-Vostochnoy dorogi.)

My work practices. Put' i put.khoz. 5 no.9:23 S '61. (MIRA 14:10)
(Railroads--Maintenance and repair)



The determination of nitrogen according to the method of Acel. I. f. Kotlyatov. *J. Physiol.* (U. S. S. R.) 21, 317-19 (1936); *Chem. Zentr.* 1938, I, 4300. For the *detn. of residual N in the blood* the method of Acel (cf. *C. A.* 15, 2040) was modified so as to use the Duboscq colorimeter. Mix a 0.5-cc. sample of blood with 3.5 cc. of phosphomolybdic acid according to the procedure of Bang (cf. *C. A.* 13, 27) and filter after 30 min. In test tubes 1 and 2 heat a drop of concd. H_2SO_4 with 0.5 cc. of the filtrate until fumes of SO_3 appear and, after the addn. of a drop of H_2O_2, ash over a period of 15–20 sec. In test tubes 3 and 4 ash a drop of H_2SO_4 and a drop of H_2O_2 without the addn. of filtrate in like manner. Test tube no. 3 serves for the detn. of the N in the reagents and no. 4 for the soln. for comparison. Dil. the solns. to 15 cc. with water and add 0.3 cc. 50% NaOH and 0.5 cc. Nessler reagent. To test tube no. 4, after the addn. of water, add 0.5 cc. of an $(NH_4)_2SO_4$ soln. contg. exactly 0.05 mg. N per cc. Colorimetrically compare the solns. in test tubes 1, 2 and 3 with that in 4. Calc. the N content of the blood sample in the usual manner, making a correction for the N contained in the reagents. This modification of the method reduces the mean error to 1.4%. M. G. M.

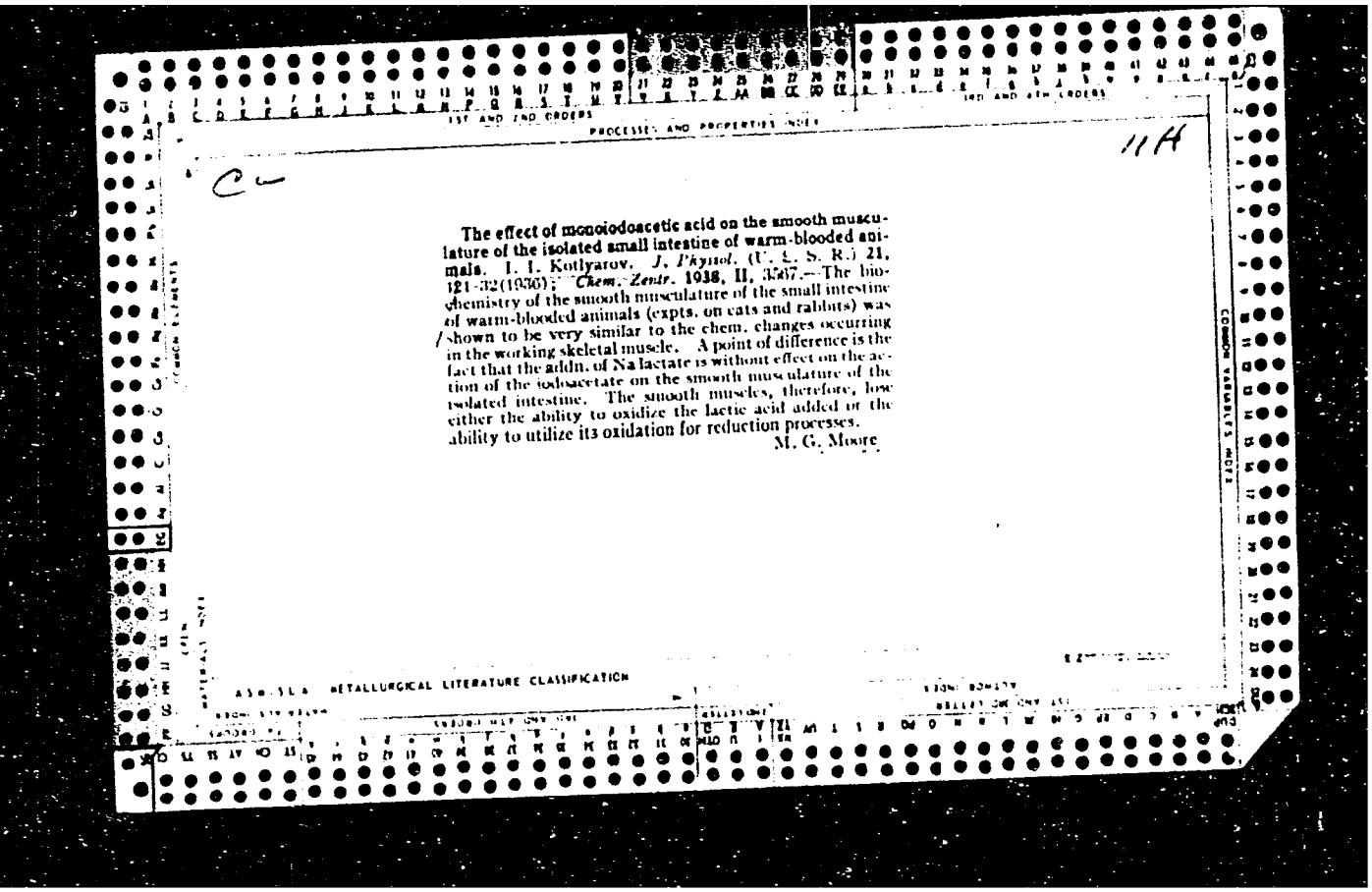


C-1

1123

The use of the method of Nicloux-Osuka for the determination of residual carbon in the blood and of carbon in the urine in the presence of protein. I. I. Kotlyarov. *J. Physiol.* (U. S. S. R.) 21, 321–4(1936); *Chem. Zentr.* 1936, I, 4360.—In the detn. of the C:N ratio in the blood and urine after extirpation of the suprarenal capsules, the method of Osuka (cf. *C. A.* 20, 2480) was used not only for the detn. of C in the urine but also for that of the residual C in the blood. The blood protein was pptd. with phosphotungstic acid according to the method of Stepp. A 10–20-cc. portion of the filtrate in a small flask was neutralized, in accordance with the method of Osuka, with 2 *N* KOH, a drop of 0.05 *N* NaOH to which methyl red had been added serving as indicator. By use of the vacuum created by a water pump, the liquid in the flask was evapd. at 40°. The residue was then ashed according to the method of Osuka. Albumin-contg. urine was treated in like manner. The vol. of the small flask in the app. of Osuka was increased to 50 cc. Control detns. of the C in urea gave a mean error of 1.4%. The difference between the results of parallel detns. was on an av. 2.0% for blood and 2% for urine. M. G. Moore

ASM STEEL METALLURGICAL LITERATURE CLASSIFICATION



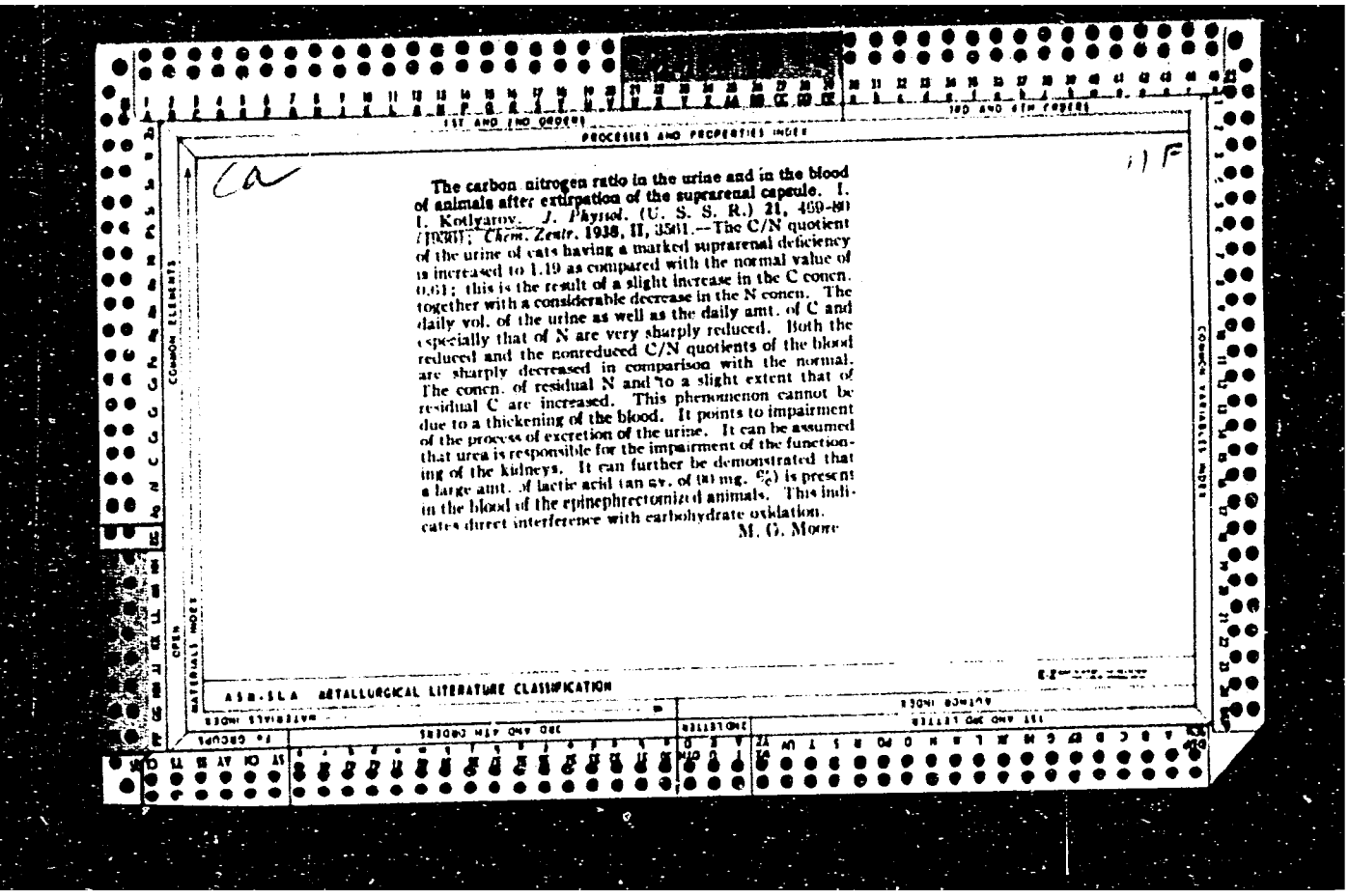
11H

Cu

The effect of monoiodoacetic acid on the smooth musculature of the isolated small intestine of warm-blooded animals. I. I. Kotlyarov. *J. Physiol.* (U. S. S. R.) **21**, 121–32 (1936); *Chem. Zentr.* **1938**, II, 3507.—The biochemistry of the smooth musculature of the small intestine of warm-blooded animals (expts. on cats and rabbits) was shown to be very similar to the chem. changes occurring in the working skeletal muscle. A point of difference is the fact that the addn. of Na lactate is without effect on the action of the iodoacetate on the smooth musculature of the isolated intestine. The smooth muscles, therefore, lose either the ability to oxidize the lactic acid added or the ability to utilize its oxidation for reduction processes.

M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



PROCESSES AND PROPERTIES INDEX

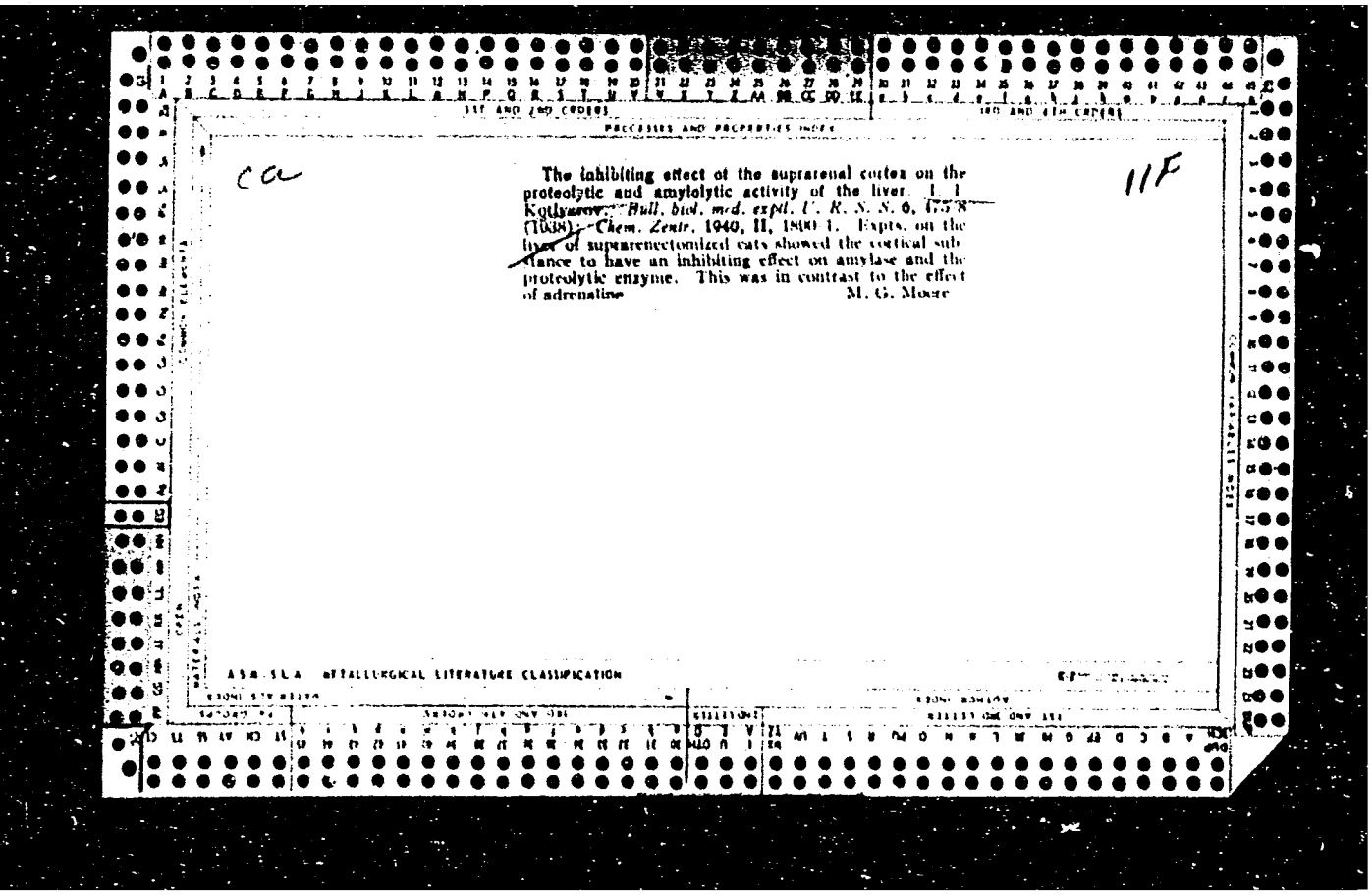
Ca

11 F

The carbon nitrogen ratio in the urine and in the blood of animals after extirpation of the suprarenal capsule. I. I. Kotlyarov. *J. Physiol. (U. S. S. R.)* **21**, 469-80 (1936); *Chem. Zentr.* 1938, II, 3501.—The C/N quotient of the urine of cats having a marked suprarenal deficiency is increased to 1.19 as compared with the normal value of 0.61; this is the result of a slight increase in the C concn. together with a considerable decrease in the N concn. The daily vol. of the urine as well as the daily amt. of C and especially that of N are very sharply reduced. Both the reduced and the nonreduced C/N quotients of the blood are sharply decreased in comparison with the normal. The concn. of residual N and to a slight extent that of residual C are increased. This phenomenon cannot be due to a thickening of the blood. It points to impairment of the process of excretion of the urine. It can be assumed that urea is responsible for the impairment of the functioning of the kidneys. It can further be demonstrated that a large amt. of lactic acid (an av. of (illegible) mg. %) is present in the blood of the epinephrectomized animals. This indicates direct interference with carbohydrate oxidation.

M. G. Moore

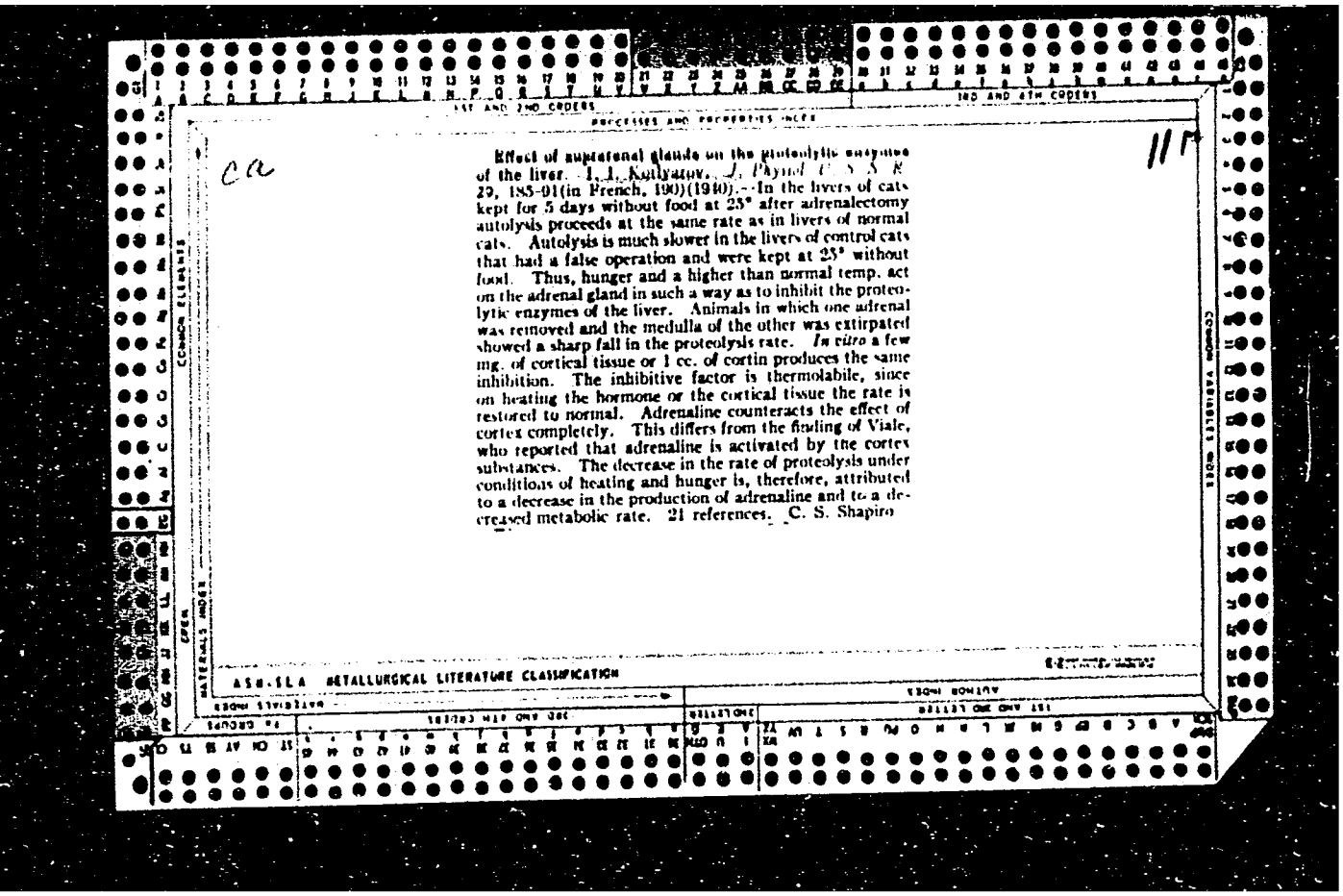
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



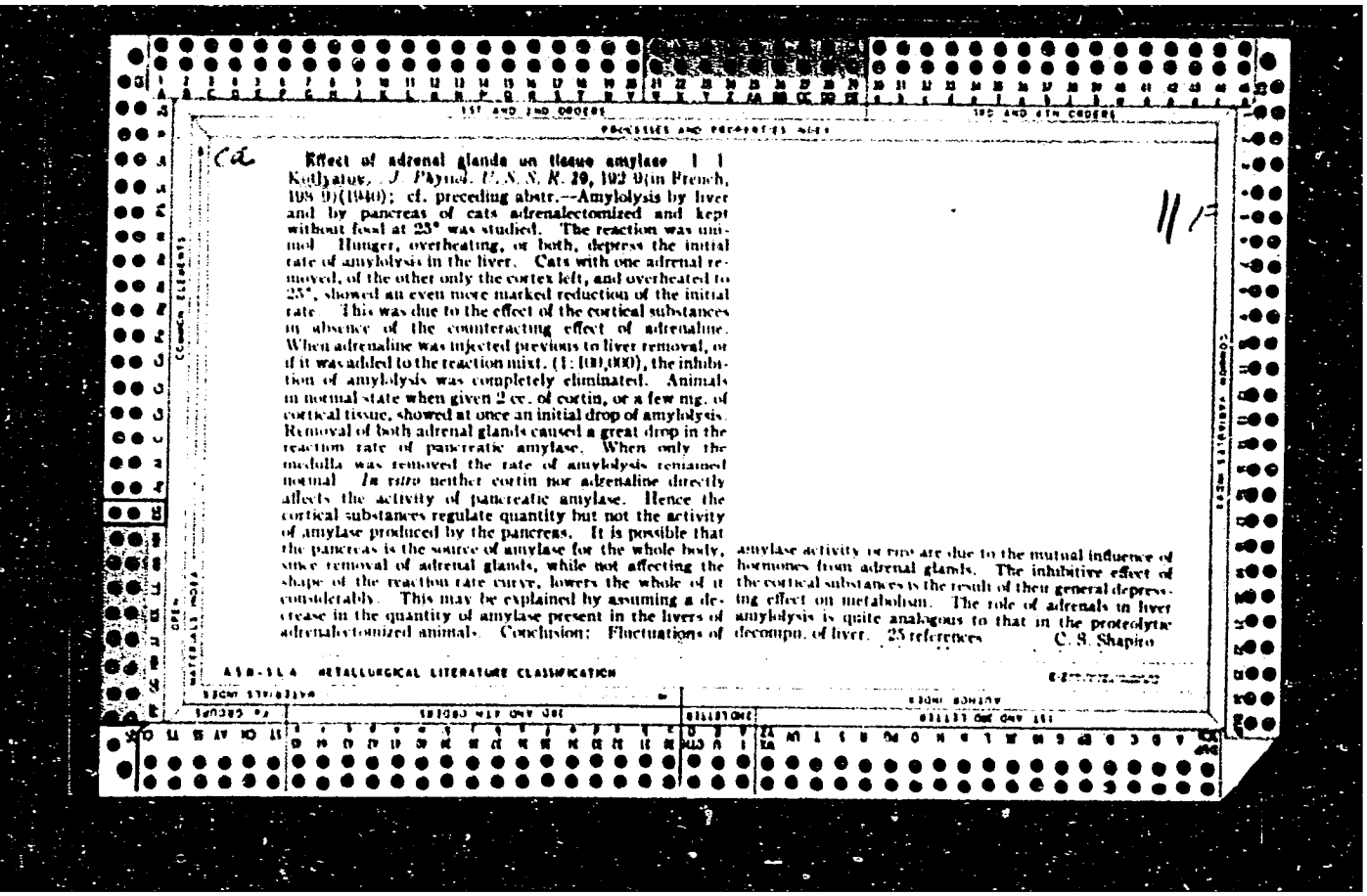
CC

The inhibiting effect of the suprarenal cortex on the proteolytic and amylolytic activity of the liver. I. I Kotlyarov. *Bull. biol. med. exptl. U. R. S. S.* 6, 475-8 (1938). *Chem. Zentr.* 1940, II, 1800 f. Expts. on the liver of suprarenectomized cats showed the cortical substance to have an inhibiting effect on amylase and the proteolytic enzyme. This was in contrast to the effect of adrenaline. M. G. Moore

11F



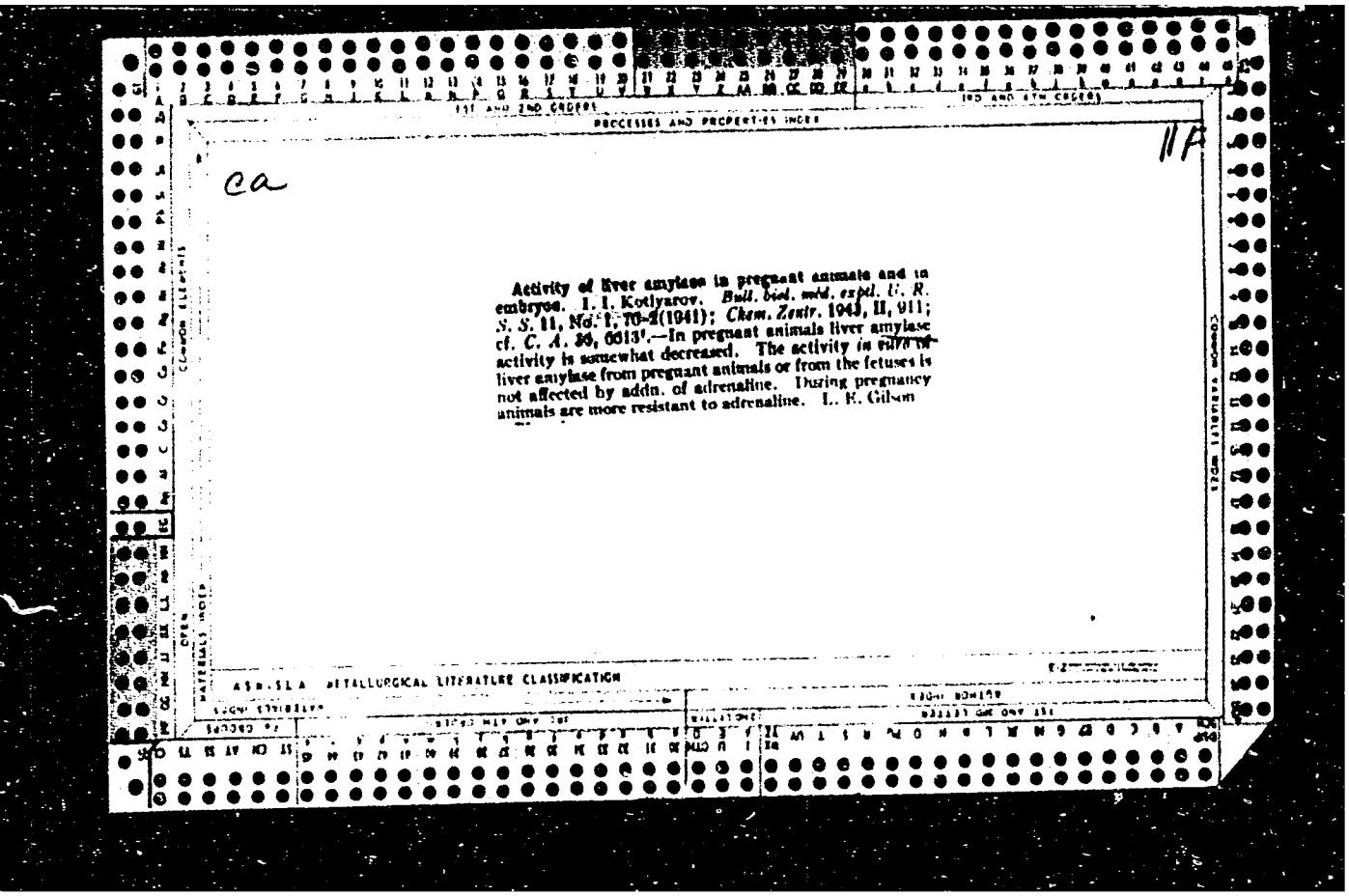
Effect of suprarenal glands on the proteolytic enzymes of the liver. I. I. Kuliyatov. *J. Physiol. (U.S.S.R.)* 29, 185-91(in French, 190)(1940).--In the livers of cats kept for 5 days without food at 25° after adrenalectomy autolysis proceeds at the same rate as in livers of normal cats. Autolysis is much slower in the livers of control cats that had a false operation and were kept at 25° without food. Thus, hunger and a higher than normal temp. act on the adrenal gland in such a way as to inhibit the proteolytic enzymes of the liver. Animals in which one adrenal was removed and the medulla of the other was extirpated showed a sharp fall in the proteolysis rate. *In vitro* a few mg. of cortical tissue or 1 cc. of cortin produces the same inhibition. The inhibitive factor is thermolabile, since on heating the hormone or the cortical tissue the rate is restored to normal. Adrenaline counteracts the effect of cortex completely. This differs from the finding of Viale, who reported that adrenaline is activated by the cortex substances. The decrease in the rate of proteolysis under conditions of heating and hunger is, therefore, attributed to a decrease in the production of adrenaline and to a decreased metabolic rate. 21 references. C. S. Shapiro



Ca

Effect of adrenal glands on tissue amylase. I. I. Kudjatow. *J. Physiol. U.S.S.R.* **29**, 102-9(in French, 108-9)(1940); cf. preceding abstr.—Amylolysis by liver and by pancreas of cats adrenalectomized and kept without food at 25° was studied. The reaction was unimol. Hunger, overheating, or both, depress the initial rate of amylolysis in the liver. Cats with one adrenal removed, of the other only the cortex left, and overheated to 25°, showed an even more marked reduction of the initial rate. This was due to the effect of the cortical substances in absence of the counteracting effect of adrenaline. When adrenaline was injected previous to liver removal, or if it was added to the reaction mixt. (1:100,000), the inhibition of amylolysis was completely eliminated. Animals in normal state when given 2 cc. of cortin, or a few mg. of cortical tissue, showed at once an initial drop of amylolysis. Removal of both adrenal glands caused a great drop in the reaction rate of pancreatic amylase. When only the medulla was removed the rate of amylolysis remained normal. *In vitro* neither cortin nor adrenaline directly affects the activity of pancreatic amylase. Hence the cortical substances regulate quantity but not the activity of amylase produced by the pancreas. It is possible that the pancreas is the source of amylase for the whole body, since removal of adrenal glands, while not affecting the shape of the reaction rate curve, lowers the whole of it considerably. This may be explained by assuming a decrease in the quantity of amylase present in the livers of adrenalectomized animals. Conclusion: Fluctuations of amylase activity in vivo are due to the mutual influence of hormones from adrenal glands. The inhibitive effect of the cortical substances is the result of their general depressing effect on metabolism. The role of adrenals in liver amylolysis is quite analogous to that in the proteolytic decompn. of liver. 25 references. C. S. Shapiro

A58-11A METALLURGICAL LITERATURE CLASSIFICATION



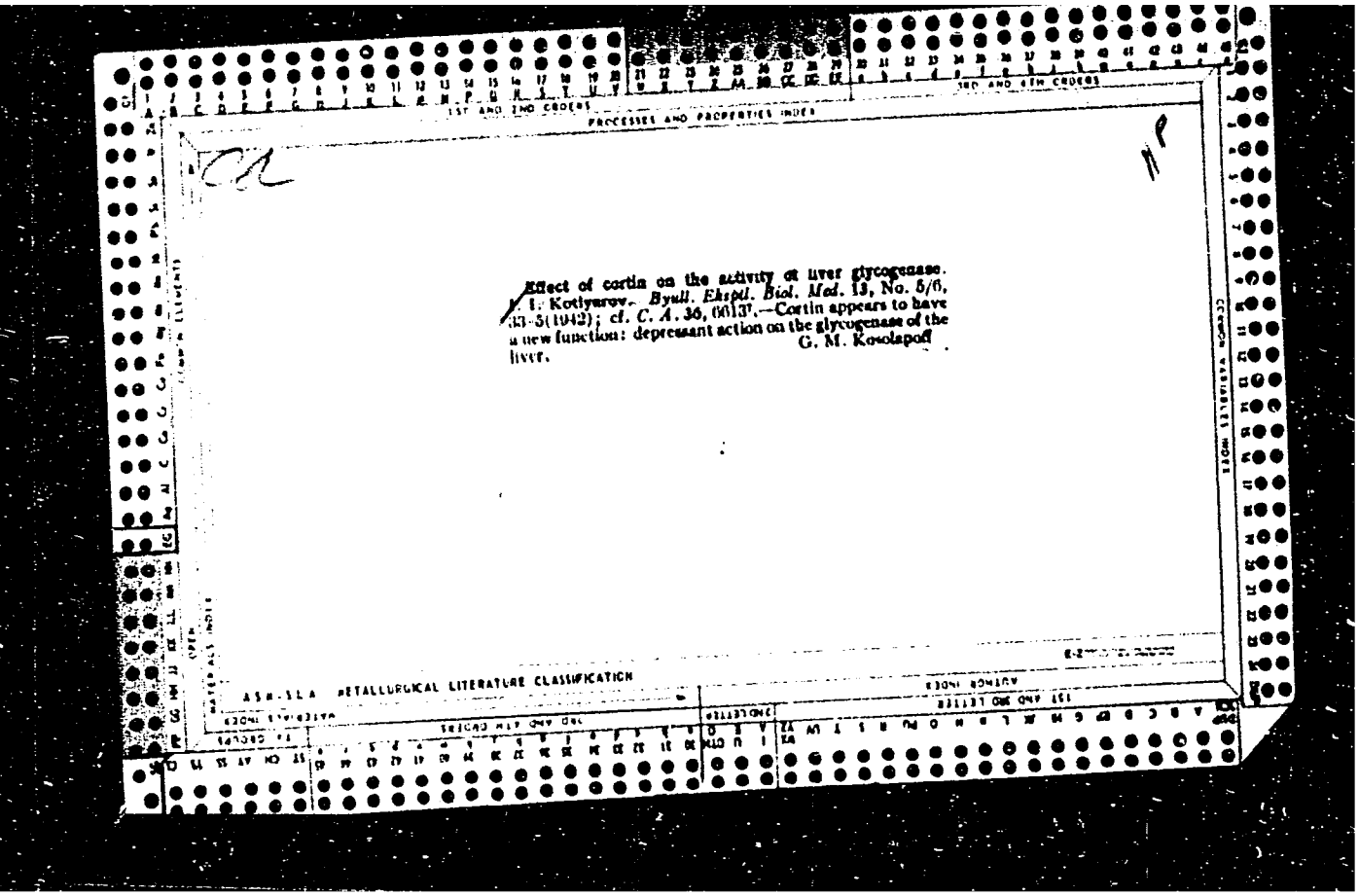
PROCESSES AND PROPERTIES INDEX

11A

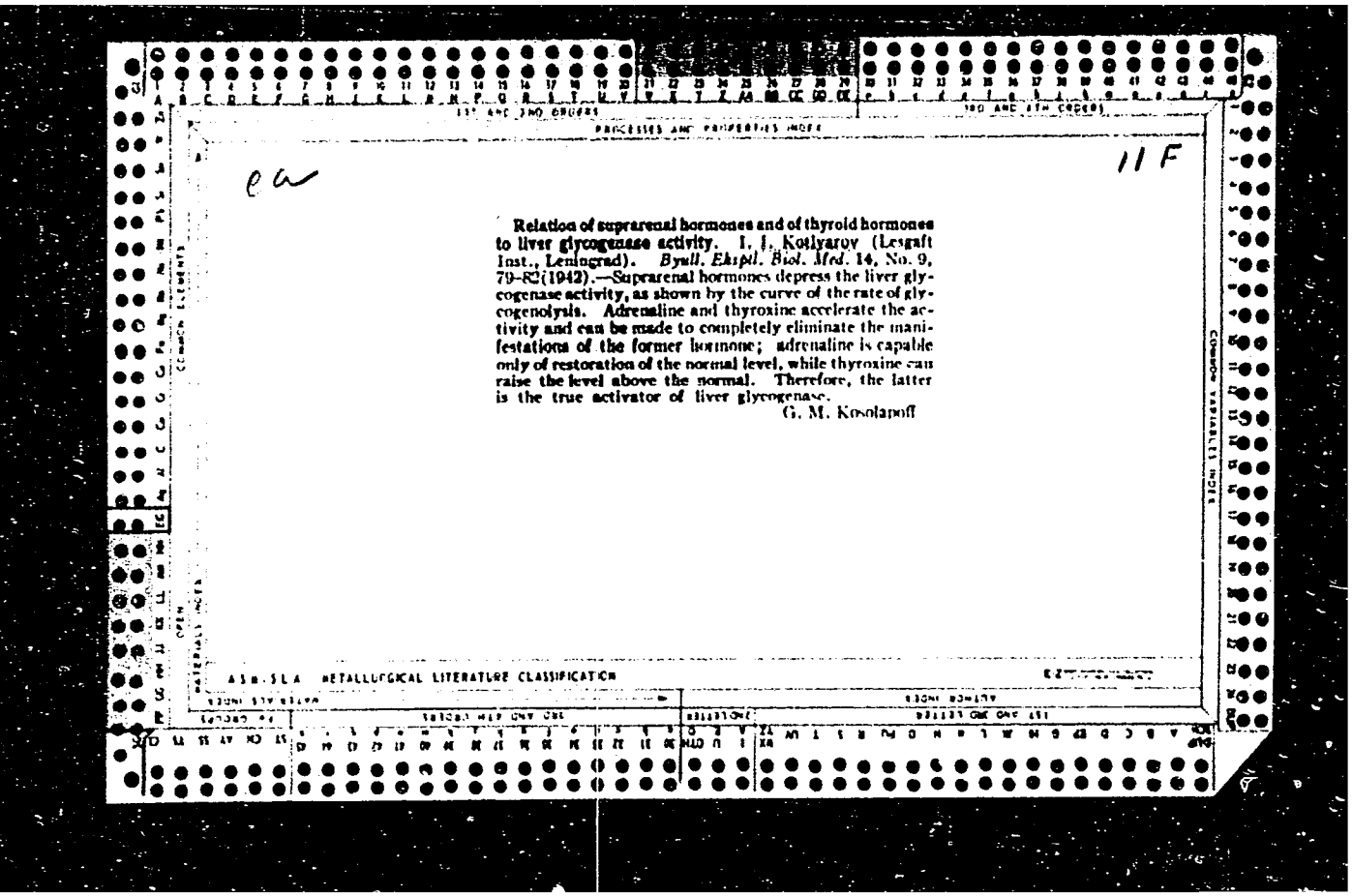
ca

Activity of liver amylase in pregnant animals and in embryos. I. I. Kotlyarov. *Bull. biol. med. exptl. U. R. S. S.* 11, No. 1, 70-2(1941); *Chem. Zentr.* 1943, II, 911; cf. *C. A.* 36, 6013¹.—In pregnant animals liver amylase activity is somewhat decreased. The activity *in vitro* of liver amylase from pregnant animals or from the fetuses is not affected by addn. of adrenaline. During pregnancy animals are more resistant to adrenaline. L. E. Gilson

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



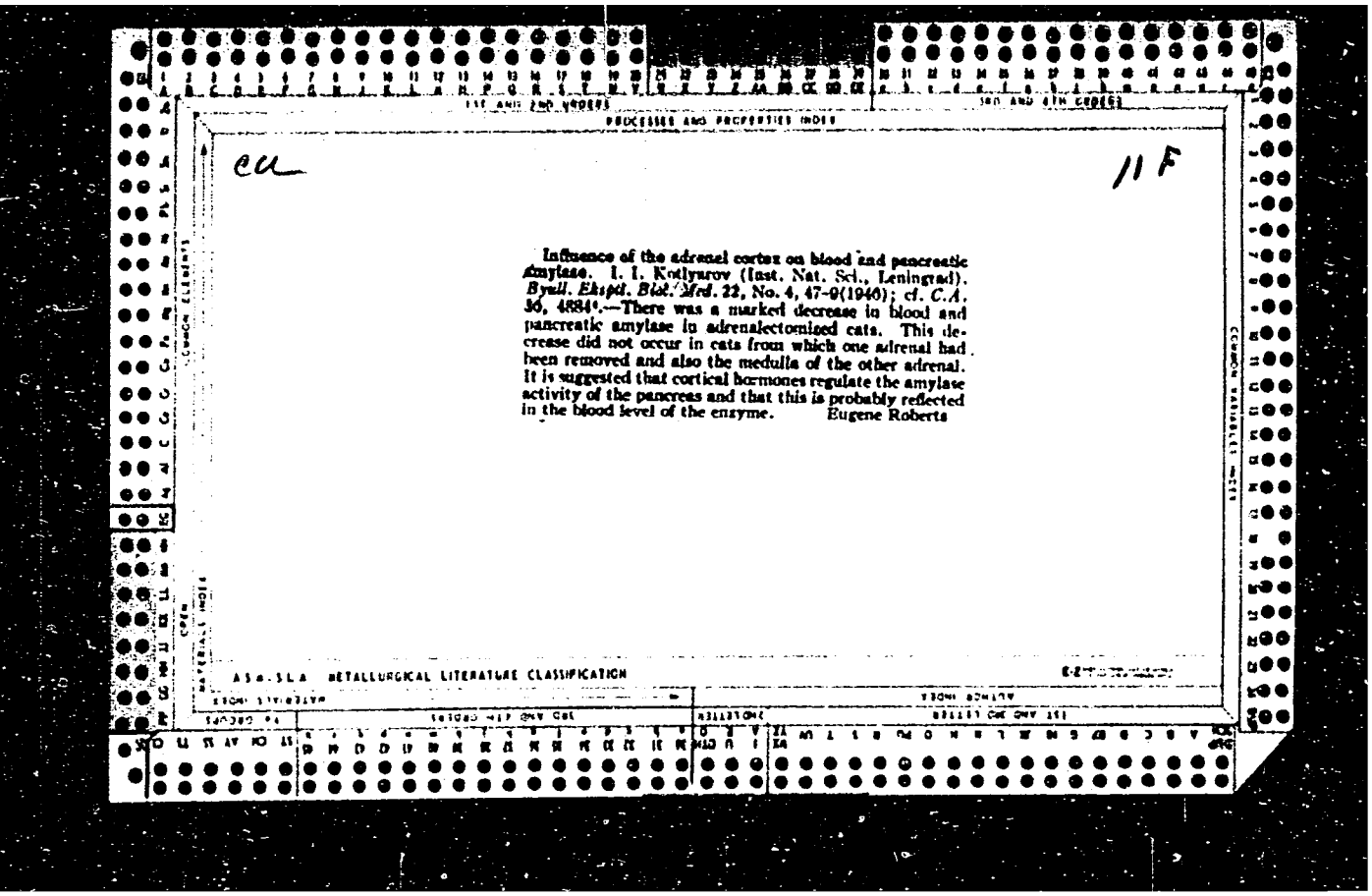
Effect of cortin on the activity of liver glycogenase. I. Kotlyarov. *Byull. Eksptl. Biol. Med.* 13, No. 5/6, 53-5(1942); cf. *C. A.* 36, 6613⁷.—Cortin appears to have a new function: depressant action on the glycogenase of the liver.
G. M. Kosolapoff



11 F

Relation of suprarenal hormones and of thyroid hormones to liver glycogenase activity. I. I. Kotlyarov (Lesgaft Inst., Leningrad). *Byull. Eksptl. Biol. Med.* 14, No. 9, 79–82(1942).—Suprarenal hormones depress the liver glycogenase activity, as shown by the curve of the rate of glycogenolysis. Adrenaline and thyroxine accelerate the activity and can be made to completely eliminate the manifestations of the former hormone; adrenaline is capable only of restoration of the normal level, while thyroxine can raise the level above the normal. Therefore, the latter is the true activator of liver glycogenase.

G. M. Kosolapoff

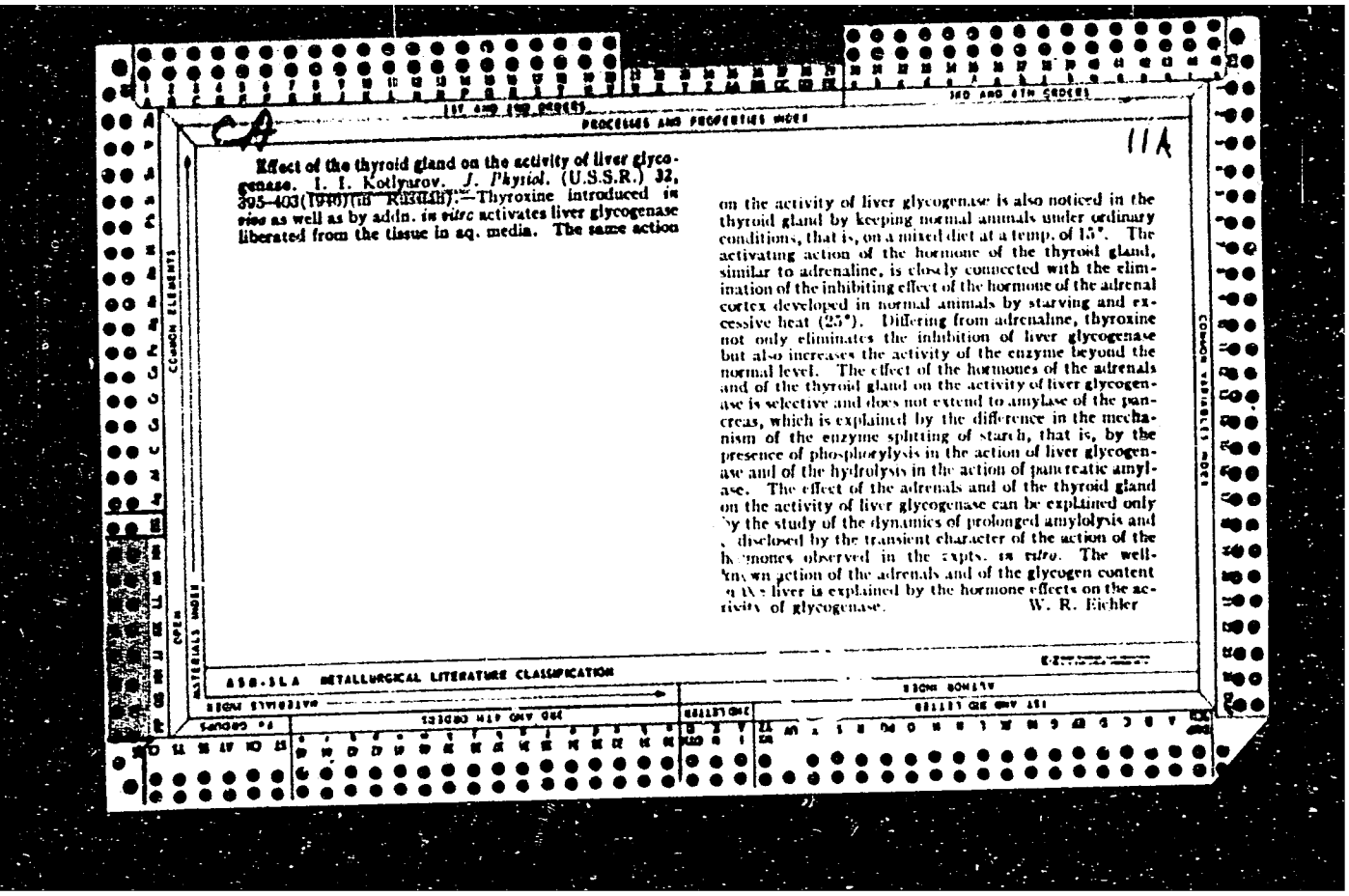


cu

11 F

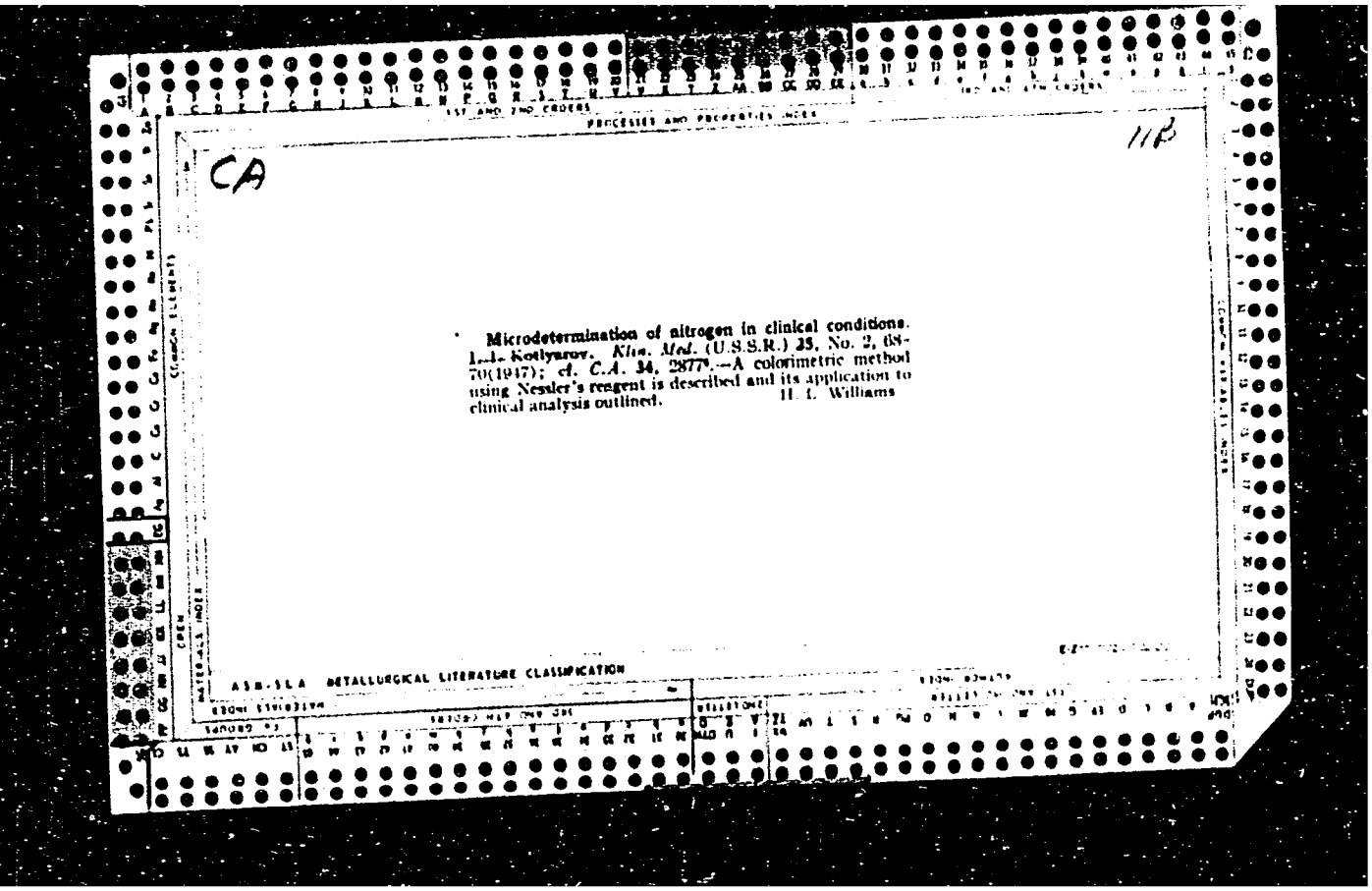
Influence of the adrenal cortex on blood and pancreatic amylase. I. I. Kotlyarov (Inst. Nat. Sci., Leningrad). *Byull. Eksptl. Biol. Med.* 22, No. 4, 47-9(1946); cf. *C.A.* 36, 4884⁶.—There was a marked decrease in blood and pancreatic amylase in adrenalectomized cats. This decrease did not occur in cats from which one adrenal had been removed and also the medulla of the other adrenal. It is suggested that cortical hormones regulate the amylase activity of the pancreas and that this is probably reflected in the blood level of the enzyme. Eugene Roberts

A 5 4 - S L A METALLURGICAL LITERATURE CLASSIFICATION



11A

Effect of the thyroid gland on the activity of liver glycogenase. I. I. Kotlyarov. *J. Physiol.* (U.S.S.R.) 32, 395–403(1940)(in Russian).—Thyroxine introduced *in vivo* as well as by addn. *in vitro* activates liver glycogenase liberated from the tissue in aq. media. The same action on the activity of liver glycogenase is also noticed in the thyroid gland by keeping normal animals under ordinary conditions, that is, on a mixed diet at a temp. of 15°. The activating action of the hormone of the thyroid gland, similar to adrenaline, is closely connected with the elimination of the inhibiting effect of the hormone of the adrenal cortex developed in normal animals by starving and excessive heat (25°). Differing from adrenaline, thyroxine not only eliminates the inhibition of liver glycogenase but also increases the activity of the enzyme beyond the normal level. The effect of the hormones of the adrenals and of the thyroid gland on the activity of liver glycogenase is selective and does not extend to amylase of the pancreas, which is explained by the difference in the mechanism of the enzyme splitting of starch, that is, by the presence of phosphorylysis in the action of liver glycogenase and of the hydrolysis in the action of pancreatic amylase. The effect of the adrenals and of the thyroid gland on the activity of liver glycogenase can be explained only by the study of the dynamics of prolonged amylolysis and is disclosed by the transient character of the action of the hormones observed in the expts. *in vitro*. The well-known action of the adrenals and of the glycogen content of the liver is explained by the hormone effects on the activity of glycogenase. W. R. Eichler

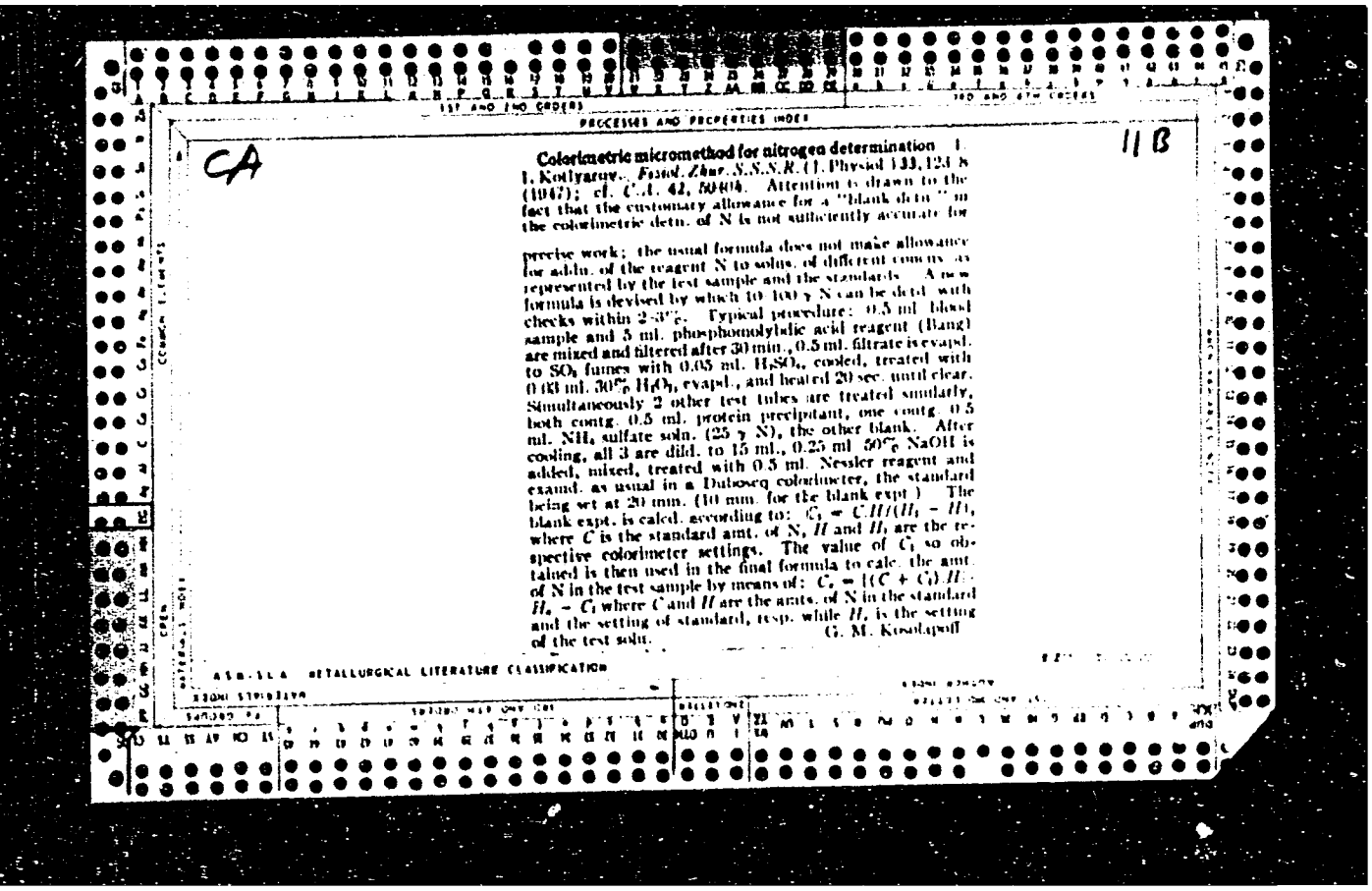


CA

11B

Microdetermination of nitrogen in clinical conditions. I. I. Kotlyarov. *Klin. Med.* (U.S.S.R.) **25**, No. 2, 68-70(1947); cf. *C.A.* **34**, 2877.—A colorimetric method using Nessler's reagent is described and its application to clinical analysis outlined. H. L. Williams

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



PROCESSES AND PROPERTIES INDEX

CA

11B

Colorimetric micromethod for nitrogen determination I. I. Kotlyarov. *Fiziol. Zhur. S.S.S.R.* (J. Physiol) 33, 123-8 (1947); cf. *C.A.* 42, 5004i. Attention is drawn to the fact that the customary allowance for a "blank detn." in the colorimetric detn. of N is not sufficiently accurate for precise work; the usual formula does not make allowance for addn. of the reagent N to solns. of different concns. as represented by the test sample and the standards. A new formula is devised by which 10-100 γ N can be detd. with checks within 2-3%. Typical procedure: 0.5 ml. blood sample and 5 ml. phosphomolybdic acid reagent (Bang) are mixed and filtered after 30 min., 0.5 ml. filtrate is evapd. to SO_3 fumes with 0.05 ml. H_2SO_4, cooled, treated with 0.03 ml. 30% H_2O_2, evapd., and heated 20 sec. until clear. Simultaneously 2 other test tubes are treated similarly, both contg. 0.5 ml. protein precipitant, one contg. 0.5 ml. NH_4 sulfate soln. (25 γ N), the other blank. After cooling, all 3 are dild. to 15 ml., 0.25 ml. 50% NaOH is added, mixed, treated with 0.5 ml. Nessler reagent and exaind. as usual in a Duboscq colorimeter, the standard being set at 20 mm. (10 mm. for the blank expt.). The blank expt. is calcd. according to: $C_1 = CH/(H_1 - H)$, where C is the standard amt. of N, H and H_1 are the respective colorimeter settings. The value of C_1 so obtained is then used in the final formula to calc. the amt. of N in the test sample by means of: $C_x = [(C + C_1)H]/H_x - C_1$ where C and H are the amts. of N in the standard and the setting of standard, resp. while H_x is the setting of the test soln. G. M. Kosolapoff

ASM-TLA METALLURGICAL LITERATURE CLASSIFICATION

KOTLYAROV, I.I.

Modification of Pandy's test. Lab.delo 6 [i.e. 4] no.4:30-31 Jl-Ag '58 (MIRA 11:9)

1. Iz kafedry biokhimii (zav. -prof. I.I. Kotlyarov) Krasnoyarskogo meditsinskogo instituta.
(CEREBROSPINAL FLUID--ANALYSIS)

KOTLYAROV, I. I. (USSR)

"A Quantitative Micromethod for the Determination of Fibrinogen in Whole Blood."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

KOTLYAROV, I. I.; POMASKINA, A. N.

Content of fibrinogen and labile globulins in the blood of patients with pulmonary tuberculosis. Probl. tub. no.7:103-107 '61. (MIRA 14:12)

1. Iz kafedry biokhimii (zav. - prof. I. I. Kotlyarov) Krasnoyarskogo meditsinskogo instituta (dir. - kandidat meditsinskikh nauk P. G. Podzolkov, zam. dir. po nauchnoy chasti - prof. M. A. Dmitriyev)

(TUBERCULOSIS) (FIBRINOGEN) (GLOBULIN)

KOTLYAROV, I.I., prof.; PLYUT, Ye.F., vrach (Krasnoyarsk, 20, ul. Diksona, d.7., kv. 2); RITTER, A.Ya.; ROMANOVA, O.V. (Krasnoyarsk, 20, ul. Diksona, d.7., kv. 2)

Treatment of radiation injuries of the skin with fresh autofibrin films. Vop. onk. 10 no.10:97-100 '64. (MIRA 18:8)

1. Iz kafedry biokhimii (zav. - prof. I.I.Kotlyarov) Krasnoyarskogo meditsinskogo instituta (rektor - dotsent P.G.Fedoseyev) i Krasnoyarskogo krayevogo onkologicheskogo dispansera (zav. radiologicheskim otdeleniyem - vrach Ye.F.Plyut) Adres Kotlyarova i Rittera: Krasnoyarsk, ul. Karla Marksa, 124, Kafedra biokhimii Krasnoyarskogo meditsinskogo instituta.

MOISEYENKO, S.N.; KOTLYAROV, I.I.

Determination of the average size of cedar stands of different ages in the Far East. Soob. DVFAN SSSR no.19:113-116 '63. (MIRA 17:9)

1. Dal'nevostochnyy nauchno-issledovatel'skiy institut lesnogo khozyaystva.

KOTLYAROV, I.I.; KRECHETOV, N.I.

Some problems of natural reproduction in cedar forests. Soob. DVFAN SSSR no.18:87-92 '63. (MIRA 17:11)

1. Dal'nevostochnyy nauchno-issledovatel'skiy institut lesnogo khozyaystva.

KOTLYAROV, I.S.

Overall mechanization of work in the newspapers and periodicals dispatch office. Vest. sviazi 22 no.7:22-23 Jl '62. (MIRA 15:7)

1. Zaveduyushchiy proizvodstvenno-tekhnicheskoy laboratoriyey Ashkhabadskogo pochtamta.
(Postal service--Second-class matter)

S/213/62/002/002/001/001
A052/A126

AUTHORS: Khitrov, L. M., Kotlyarov, K. A.

TITLE: Deep-water gamma-radiometer and radioactivity measurement of deep water layers of the Indian Ocean

PERIODICAL: Okeanologiya, no. 2, 1962, 334 - 345

TEXT: The paper describes the deep-water radiometer РАГ-1 (RAG-1) and gives some results of radioactivity measurements in great depths of the Indian Ocean. The work was carried out in 1959 - 1960 in Moscow and on board the expedition ship "Vityaz'" during her 31st cruise. A direct and speedy radioactivity measurement in depths over 1,000 m is of considerable interest for clarifying both the character of radioactivity propagation in the ocean and a number of hydrological problems (boundaries and direction of streams, water-mass origin, etc.). It assumes a special importance in connection with the problem of the nuclear fallout disposal, since a proposal has been made to bury fallout in maximum ocean depth. There are two contrasting opinions. Soviet scientists, on the basis of a number of hydrochemical and hydrological data, have arrived at a con-

Deep-water gamma-radiometer and .....

clusion on a speedy exchange of water in trenches and on the presence of noticeable streams along deep-water troughs which will lead to a speedy transfer of radioactive matter into other regions. Under such conditions the burying and conservation of fallout becomes impossible. American scientists are of a different opinion, and a direct study of the radio-isotope propagation can provide a definite solution of this problem. Besides radiochemical methods of studying the radioactivity distribution in sea water, direct measurements of elevated radioactivity have been attempted. The design principle of the described RAG-1 radiometer consists in accommodating all recording equipment, along with the pickup, in one deep-water unit making the latter self-contained. The lowering of the radiometer can be realized by means of the usual hydrological winch of Okean-type on a wire rope. The shortcomings of such a device (the impossibility to control the performance in the depth and the delay in receiving information until the radiometer is raised are offset by its obvious advantages (no depth limits, tightness, simplified operation). The RAG-1 radiometer consists of the following elements: 1) scintillation crystal (NaJ, 30 x 10 mm); 2) photoelectronic multiplier ФЭУ -29

Deep-water gamma-radiometer and .....

(FEU-29) with a two-way emitter repeater built on diffusion transistors П-402 (P-402); 3) amplifier and discriminator; the amplifier is built on transistors of different types of conductivity; for the amplification of signals of negative and positive polarity germanium triodes П-15 (P-15) (p-n-p) and silicon triodes П-103 (P-103) (n-p-n) respectively are used. The first two cascades before the diode Д-2Е (D-2Ye) discriminator have an amplification coefficient of about 100; after the discriminator a two--cascade amplifier follows with an amplification coefficient of the order of 800. The output pulse is supplied to a normalizer built on a cold thyratron МТХ-90 (MTKh-90); 4) interconversion and commutating device; the interconversion device makes it possible to measure the ocean radioactivity in a wide activity zone also to calibrate the radiometer with a reference source of a relatively high activity. The device is built on MTKh-90 tubes; 5) counter unit; it consists of 10 counters СБ-100М (SB-100M) connected to the interconversion device in a certain sequence by means of a timer consisting of an automobile clock, a polarized relay and a step finder ШИ-11 (ShI-11); 6) feed unit consisting of 4 dry accumulators securing a 2,100 hour operation. The spread of indications due to

Card 3/4

Deep-water gamma-radiometer and .....

both statistical and instrument errors is 10 pulses per minute. The threshold pickup is $2 \cdot 10^{-10}$ curie. The gamma background measurements carried out in the central and northern parts of the Indian Ocean did not detect a radioactivity level exceeding the natural one by more than a factor of 2 - 3. There are 4 figures and 4 tables.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. Vernadskogo (Institute of chemistry and analytical chemistry im. V. I. Vernadskiy)

SUBMITTED: November 16, 1961

Card 4/4

KHITROV, L.M.; KOTLYAROV, K.A.

Use of the method of flame photometry in marine studies; marine flame photometer. Okeanologiia 3 no.2:315-323 '63. (MIRA 16:4)

1. Institut geokhimii i analiticheskoy khimii imeni V.I. Vernadskogo AN SSSR.

(Photometry)
(Oceanographic research—Equipment and supplies)

KHITROV, L.M.; KOTLYAROV, K.A.

The marine flame photometer and its use. Trudy Inst. okean 75: 135-140 '64. (MIRA 17:11)

KOTLYAROV, K.A.; KHITROV, L.M.

Measurement of minute radioactivity values under field conditions. Okeanologiia 4 no.2:213-222 '64. (MIRA 17:5)

1. Institut geokhimii i analiticheskoy khimii imeni Vernadskogo AN SSSR.

KOTLYAROV, M.

Pneumatic transportation of hulls. Muk.-elev.prom. 23 no.2: 28-29 F '57. (MLRA 10:5)

1. Voroshilovgradskiy mel'kombinat no.7.
(Pneumatic-tube transportation)

GADASIN, M.M.; GELLERT, I.V.; LYCHAGIN, Ya.Ya.; ROZA, L.I.; BURSHTEYN, I.Ye., laureat Stalinskoy premii; kandidat tekhnicheskikh nauk, retsenzent; KOTLYAROV, M.Z., inzhener, retsenzent; MARTYNOV, N.P., inzhener, redaktor; POPOVA, S.M., tekhnicheskiy redaktor.

[Files; design and manufacture] Napil'niki; konstruktsiia i izgotovlenie. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1951. 236 p. (Files and rasps) (MLRA 8:2)

ALEKSANDROV, I.N., doktor med.nauk, KOTLYAROV, M.Z.

Specific features in the course and treatment of severe affections of the ears, nose and throat in the war wounded [with summary in English]. Vest.oto-rin. 20 no.5:25-32 S-O '58 (MIRA 11:12)

1. Iz otolaringologicheskogo otdeleniya (zav. doktor med.nauk I.N. Aleksandrov) Moskovskogo gorodskogo chelyustno-litsevogo gospitalya
(NOSE, wounds and injuries
gunshot wounds in soldiers, ther. (Rus))
(EAR, wounds and injuries
same (Rus))
(PHARYNX, wounds and injuries
same (Rus))

KOTLYAROV, N. (Ul'yanovsk)

In the homeland of Il'ich. Radio no.4:15 Ap '65.

(MIRA 18:5)

MUZYCHUK, A. (g. Chardzhou); MEDVEDEV, M. (g. Chardzhou); KOTLYAROV, N. (g. Chardzhou)

Lifting device for Po-2 airplanes. Grazhd.av. no.8:18 Ag '55. (MIRA 15:8)

(Hoisting machinery) (Airplanes)

KOTLYAROV, N.

Everyday work of the Solotvino radio amateurs. Radio no.6: 7-8 Je '64. (MIRA 17:10)

KOTLYAROV, N.I.

NEKLYUDOV, V.S.; KOTLYAROV, N.I.

Substitution of nonferrous metals in the manufacture of electric instruments. Izm. tekh. no.5:38-41 S-O '55. (MLRA 9:1)
(Electric instruments)

KOTLYAROV, V.N.

Training specialized workers for the sugar industry. Sakh. prom. 32 no.1:79 Ja '58. (MIRA 11:2)

(Sugar workers)

MAYEVSKIY, O.A.; KOTLYAROV, O.P.

Device for measuring control, conduction, and commutation angles of rectifiers of converter units. Izv. vys. ucheb. zav.; prib. 8 no.5:37-43 '65. (MIRA 18:10)

1. Khar'kovskiy politekhnicheskiy institut imeni Lenina. Rekomendovana kafedroy elektrifikatsii promyshlennykh predpriyatiy.

VLADOVSKIY, Mikhail Semenovich; KOTLYAROV, P.F., inzh.; KIKIN, A.I., doktor tekhn. nauk, prof., retsenzent; POPOVICH, N.A., kand. tekhn. nauk, dots., retsenzent; OKRAYNETS, G.A., kand. tekhn. nauk, dots., otv. red.; NESTERENKO, A.S., red.; TROFIMENKO, A.S., tekhn. red.

[Open crane gantries; performance and design] Otkrytye podkranovye estakady; deistvitel'naia rabota i proektirovanie. Khar'kov, Izd-vo Khar'kovskogo gos. univ. im. A.M.Gor'kogo, 1961. 210 p. (MIRA 15:4)

(Cranes, derricks,etc.)

Kotlyarov, P.V.

5(2) PHASE I BOOK EXPLOITATION SOV/[illegible]

Akademiya nauk SSSR. Institut geokhimii i analiticheskoy khimii

Redkozemel'nyye elementy; polucheniye, analiz, primeneniye (Rare Earth Elements; Production, Analysis, and Use) Moscow, Izd-vo AN SSSR, 1959. 331 p. 5,000 copies printed.

Resp. Ed.: D. I. Ryabchikov, Professor; Eds. of Publishing House: D. N. Trifonov and T.G. Levi; Tech. Ed.: S. G. Markovich; Editorial Board: I. P. Alimarin, Corresponding Member, USSR Academy of Sciences, I. N. Zaozerskiy, Doctor of Chemical Sciences, P. V. Kotlyarov, Candidate of Chemical Sciences, V. I. Kuznetsov, Doctor of Chemical Sciences, M. M. Senyavin, Candidate of Chemical Sciences, and Yu. S. Sklyarenko, Candidate of Chemical Sciences.

PURPOSE: This book is intended for chemists in general and for geochemists and analytical chemists in particular.

COVERAGE: This collection of articles consists of reports presented at the Rare Earth Elements Symposium held in June 1956 at the Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy. The book may be divided into three sections: the characteristics, uses and production of rare earth elements (REE); the methods of analyzing REE; and the application of individual rare earth elements and REE mixtures in the glass and metallurgical industries, and their use as catalysts. Considerable space is devoted to the application of ion-exchange chromatography in the production of pure forms of all rare earth elements. The combination of this method with other methods in separating REE on an industrial scale are discussed by D. I. Ryabchikov, Yu. S. Sklyarenko, and M. M. Senyavina. Chemical methods of separating REE compounds are discussed by I. N. Zaozerskiy (who is said to be the first in the USSR to develop methods of processing REE), P. V. Kotlyarov, Z. F. Andreyeva, A. V. Nikolayev, and G. P. Aleksandrov. Quantitative X-ray spectral analytical methods are described by E. Ye. Vaynshteyn, and chemical methods of analysis by I. P. Alimarin and P. I. Pavlotskaya. The determination of REE impurities in pure products and atomic materials are discussed at length in three articles by A. N. Zaydel' and his associates. All articles are accompanied by photographs, diagrams, tables, and bibliographic references.

Card 4/9

L 41770-65 EPF(c)/EPR/ENT(l)/ENT(m)/ENG(m)/ENP(b)/ENP(c) Pc-4/Pr-4/Ps-4 IJP(c)/
RPL RM/RW/JW/JD

ACCESSION NR: AP5005761 S/0170/65/008/001/0035/0040

AUTHOR: Kessel'man, P. M.; Kotlyarevskiy, P. A.; Voloshin, A. P.

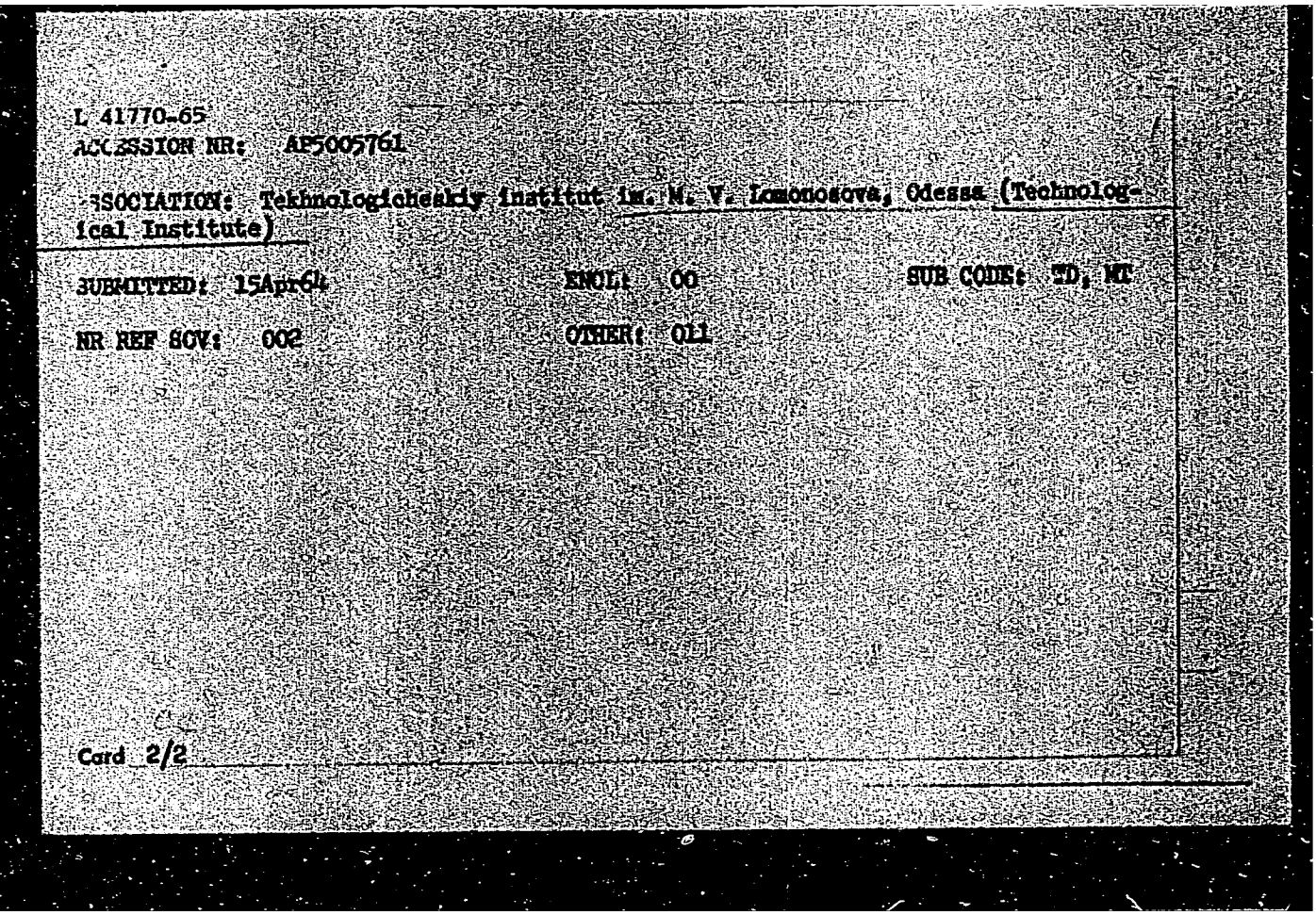
TITLE: Equation of state and thermodynamic properties of molecular nitrogen

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 8, no. 1, 1965, 35-40

TOPIC TAGS: molecular nitrogen, equation of state, themodynamic property, specific volume, entropy, enthalpy

ABSTRACT: In view of the increasing use of nitrogen in the heat-power, refrigeration, and chemical industry, the authors have derived, on the basis of experimental data on compressibility, the equation of state of molecular nitrogen using an earlier theoretical work by one of the authors (Kessel'man, IFZh, no. 1, 1959). They have then calculated detailed tables of the specific volume, enthalpy, and entropy at pressures (1 - 1000) x 10^5 N/m^2 and for temperatures up to 1000K. It is pointed out that the existing tables cover either a lower range of pressures or a lower range of temperatures. All the thermodynamic quantities were calculated with a high-speed electronic computer. Orig. art. has: 3 formulas and 3 tables.

Card 1/2



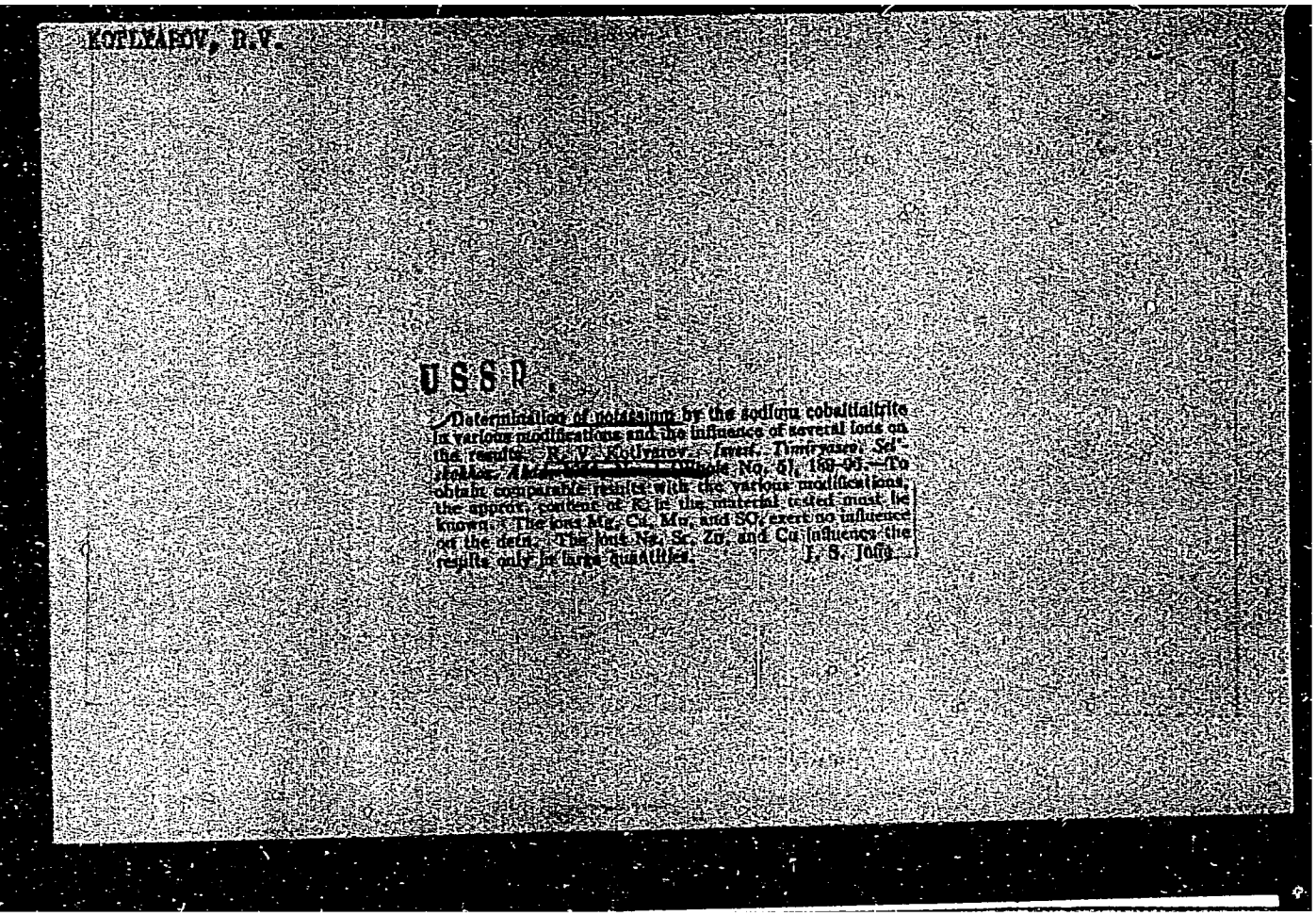
L 41770-65
ACCESSION NR: AP5005761

ASSOCIATION: Tekhnologicheskiy Institut im. M. V. Lomonosova, Odessa (Technological Institute)

SUBMITTED: 15Apr64 ENCL: 00 SUB CODE: FD, MT

NR REF SOV: 002 OTHER: 011

Card 2/2



KOTLYAROV, B.V.

USSR

Determination of potassium by the sodium cobaltinitrite in various modifications and the influence of several ions on the results. B. V. Kotlyarov. Izvest. Timiryazev. Sel'-[illegible] Akademii No. 51, 169-93.—To obtain comparable results with the various modifications, the approx. content of K in the material tested must be known. The ions Mg, Cd, Mn, and SO_4 exert no influence on the detn. The ions Na, Sr, Zn, and Cu influence the results only in large quantities. F. S. Jaffe

5(2) PHASE I BOOK EXPLOITATION SOV/1727

Akademiya nauk SSSR. Institut geokhimii i analiticheskoy khimii

Redkozemel'nyye elementy; polucheniye, analiz, primeneniye (Rare Earth Elements; Extraction, Analysis and Application) Moscow, Izd-vo AN SSSR, 1958. 331 p. 2,200 copies printed.

Resp. Ed.: D. I. Ryabchikov, Professor; Editorial Board: I. P. Alimarin, Corresponding Member, USSR Academy of Sciences, I. N. Zaozerskiy, Doctor of Chemical Sciences, R. V. Koglyarov, Candidate of Technical Sciences, V. I. Kuznetsov, Doctor of Chemical Sciences, M. M. Senyavin, Candidate of Chemical Sciences, and Yu. S. Sklyarenko, Candidate of Chemical Sciences; Eds. of Publishing House: D. N. Trifonov and T. G. Levi; Tech. Ed.: S. G. Markovich.

PURPOSE: This book is intended for scientists, chemists, teachers and students of higher educational institutions, chemical and industrial engineers, and other persons concerned with the extraction, preparation, use, or study of rare earth elements.

COVERAGE: This collection contains reports presented at the June 1956 Conference on Rare Earth Elements at the Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy of the Academy of Sciences USSR. The articles treat chemical methods of separating rare earth mixtures, methods of processing rare earth ores, ion exchange chromatography, chemical analysis, and some industrial applications of rare earths. Aside from contributing authors, the editors mention the following Soviet scientists, who are studying rare earth elements, rare earth deposits, extraction methods, and the preparation of oxides and salts: Martynov, Mel'nikov, Khrushchev, Melikov, Pisarzhevskiy, Chernyak, Tanatar, Belousov, Zhukov and especially, N. A. Orlov, who first obtained the majority of rare earth elements in the pure state, separated many complex molecular compounds of these elements, and determined their specific properties. References are given at the end of each article.

TABLE OF CONTENTS:

ZAOZERSKIY, Ivan Nikolayevich, zasl. deyatel' nauki i tekhniki doktor khim. nauk, prof.; KOTLYAROV, Rostislav Vladimirovich; PLATONOV, Fedor Petrovich; POLOSIN, Vasiliy Alekseyevich, dots.; RYABKOV, Vasiliy Aleksandrovich [deceased]; TER-SHMAONOV, Georgiy Abramovich; FINOGENOV, Mikhail Yur'yevich, dots.; MISHIN, V.P., nauchnyy red.; STUKOVNIN, N.D., red.izd-va; GRIGORCHUK, L.A., tekhn. red.

[Inorganic chemistry] Neorganicheskaia khimiia. [By] I.N. Zaozerskii i dr. Moskva, Gos.izd-vo "Vysshaia shkola," 1963. 525 p. (MIRA 16:8)

(Chemistry, Inorganic)

KOTLYAROV, Stepan Ivanovich; ZIMIN, Dmitriy Kendrat'yevich; FROLOV, Nikolay Afanas'yevich; ASSONOV, V.A., redaktor; KATSAUROV, I.N., redaktor; SHUSHKOVSKAYA, Ye.L., redaktor; ALADOVA, Ye.I., tekhnicheskiy redaktor.

[Problems in mining engineering, opening and supporting mine workings] Zadachnik po gornym rabotam, provedeniiu i kreplenilu gornykh vyrabotok. Moskva, Ugletekhizdat, 1955.261 p. (MLRA 9:5)
(Mining engineering)

KOTLYAROV S.

KOTLYAROV, S., prepodavatel'.

Shortcomings of a needed book. ("Blasting operations in coal mines" by M.A. Magoichenkova. Reviewed by S. Kotliarov.) Mast.ugl. 6 no.5:22 My '57. (MLRA 10:7)

1. Dnepropetrovskiy gornyy tekhnikum.
(Blasting) (Coal mines and mining) (Magoichenkova, M.A.)

KOTLYAROV, Stepan Ivanovich; SHELUDCHENKO, Vasiliy Yevstaf'yevich; GUSAKOV, Gennadiy Dem'yanovich; GRISHAYENKO, M.I., otvetstvennyy red.; NADEINSKAYA, A.A., tekhn. red.; PROSOROVSKAYA, V.L., tekhn. red.

[Practical work in ventilation, lighting, and mine rescue operations] Prakticheskie raboty po ventiliatsii, osveshcheniiu i gornospasatel'nomu delu. Moskva, Ugletekhizdat, 1958. 248 p. (Mine ventilation) (Mine rescue work) (Mine lighting) (MIRA 11:9)

KOTLYAROV, S., prepodavatel'.

"Manual for gas detector operators" by M.S. Nesmashnyi. Reviewed by S. Kotliarov. Mast. ugl. 7 no.2:30 F '58. (MIRA 11:3)

1. Dnepropetrovskiy gornyy tekhnikum.
(Mine gases) (Nesmashnyi, M.S.)

KOTLYAROV, S. A.

Multiple-machining jig. Mashinostroenie no.5:107 S-O '62.
(MIRA 16:1)

(Jigs and fixtures)

KOTLYAROV, S.I.

Textbook for schools of mining engineering on mining coal deposits. ("Problems in mining engineering" by IU. G. Sheinman, V.M. Mian.) Reviewed by S.I. Kotliarov. Ugol' 33 no. 7:46-47 Jl '58. (MIRA 11:7)

1. Dnepropetrovskiy gornyy tekhnikum.
(Mining engineering--Study and teaching)

KOTLYAROV, S.I., gornyy inzhener

Annoying shortcomings in a necessary and useful book. ("Book of problems in underground mining of coal deposits" by G.I. Goikhman and others. Reviewed by S.I. Kotliarov). Ugol' Ukr. 3 no.7:46 Jl '59. (MIRA 12:11)

(Bibliography--Textbooks--Coal mines and mining)
(Goikhman, G.I.) (Lipkovich, S.M.) (Zhizlov, N.I.)
(Sapitskii, K.F.)

DIKANSKIY, S.; KOTLYAROV, S.; KRUL', V., gornyy tekhnik

Graduation projects of students should have a realistic basis. Mast.ugl. 8 no.6:16-17 Je '59. (MIRA 12:10)

1. Nachal'nik tekhnicheskogo otdela tresta Krasnoarmeyskugol' (for Dikanskiy). 2. Rukovoditel' gornoy predmetnoy komissii Dnepropetrovskogo gornogo tekhnikuma (for Kotlyarov).
(Mining engineering--Study and teaching)

KOTLYAROV, Stepan Ivanovich; ZIMIN, Dmitrich Kondrat'yevich; FROLOV, Nikolay Afanas'yevich; CHERNEGOVA, E.N., red. izd-va; OVSEYENKO, V.G., tekhn. red.

[Problems on the mining operations of drifting and timbering] Zadachnik po gornym rabotam, provedeniiu i krepleniiu gornykh vyrabotok. Izd.2., perer. i dop. Moskva, Gosgortekhizdat, 1962. 311 p. (MIRA 15:9)
(Mining engineering) (Mine timbering)

KOTLYAROV, V. D.

Kotlyarov, V. D. "The problem of volitional features of character among students (middle and older classes)." Leningrad Order of Lenin State U imeni A. A. Zhdanov. Leningrad, 1956. (Dissertation for the Degree of Candidate in Pedagogical Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow. Pages 94-109; 111.

KOTLYAROV, V.G.

PHASE I BOOK EXPLOITATION SOV/5078

Akademiya nauk URSR, Kiyev. Instytut elektrozvaryuvannya

Vnedreniye novykh sposobov svarki v promyshlennost'; sbornik statey. vyp. 3. (Introduction of New Welding Methods in Industry; Collection of Articles. v. 3) Kiyev, Gos. izd-vo tekhn. lit-ry UkrSSR, 1960. 207 p. 5,000 copies printed.

Sponsoring Agency: Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni akademika Ye. O. Patona Akademii nauk Ukrainskoy SSR.

Ed.: M. Pisarenko; Tech. Ed.: S. Matusevich.

PURPOSE: This collection of articles is intended for personnel in the welding industry.

COVERAGE: The articles deal with the combined experiences of the Institut elektrosvarki imeni Ye. O. Patona (Electric Welding Institute imeni Ye. O. Paton) and several industrial enterprises in solving scientific and engineering problems in welding technology. Problems in the application of new methods of mechanized welding and electroslag welding in industry are discussed. This is the third collection of articles published under the same title. The Foreword was written by B. Ye. Paton, Academician of the Academy of Sciences Ukrainian SSR and Lenin prize winner. There are no references.

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KOTLYAROV, V.I.

Organize the publication of visual aids. Sakh. prom. 32 no.5:74 My '58. (MIRA 11:6)
(Sugar industry)

KOTLYAROV, Vasiliy Ivanovich; LEPIN, A.E., red.; SMIRNOV, P.S., tekhn.red.

[Manufacture machines on production lines] Proizvodstvo mashin - na potok. Leningrad, Lenizdat, 1959. 23 p. (MIRA 12:11)

1. Direktor zavoda "Krasnyy metallist" (for Kotlyarov).
(Machinery industry)

SHATS, Ya.Yu., kand. tekhn. nauk; KOTLYAROV, V.L., inzh.

Automatic control system for machine tools based on programming by electronic digital computers. Mekh. i avtom. proizv. 19 no.5:20-24 My '65. (MIRA 18:11)

L 22129-65 EWT(1)/EWA(h) Pab-2 SSD/ASD(a)-5/SSD/AFWL/AFMD(p)/ESD(c)/ESD(dp)/ESD(gs)

ACCESSION NR: AP5001749 S/0302/64/000/004/0068/0070

AUTHOR: Kotlyarov, V. L.; Lukashchuk, L. A.; Shvetskiy, B. I.

TITLE: High-speed register for digital electronic measuring instruments

SOURCE: Avtomatika i priborostroyeniye, no. 4, 1964, 68-70

TOPIC TAGS: digital instrument, register, digital recording system

ABSTRACT: The development of a high-speed register for handling 20 readings of digital instruments per second is reported. Based on a type BPM-20 serial printer, the register comprises diode and coding drums, a phototransistor, thyratrons, triggers, etc. Two block diagrams give an idea of the printer's remodeling. For a type V7-8 voltmeter, the number of registered readings may be brought to 40 per second, as the reading takes only 7 digits in the 16-digit mechanism. Orig. art. has: 2 figures and 1 formula.

ASSOCIATION: L'vovskiy politekhnicheskiy institut (L'vov Polytechnic Institute)

SUBMITTED: 00 ENCL: 00

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

Card 1/1

BAKULOV, I.A.; KHIZHINSKIY, P.G.; SAKOVICH, O.Yu.; KOZLOVA, D.I.; KOTLYAROV, V.M.; KOTLYAROVA, G.A.

Titration of the pathogen of literiosis on chick embryos and white mice. Veterinariia 42 no.10:25-28 O '65.

(MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy virusologii i mikrobiologii.

L 33673-66 EWT(1)/T JK

ACC NR: AP6012252 (A) SOURCE CODE: UR/0346/65/000/012/0028/0031

AUTHOR: Bakulov, I. A.; Kotlyarov, V. M.

ORG: All Union Scientific Research Institute of Veterinary Virusology and Microbiology (Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy virusologii i mikrobiologii)

TITLE: Epizootiology of listeriosis in the USSR

SOURCE: Veterinariya, no. 12, 1965, 28-31

TOPIC TAGS: epizootiology, animal disease

ABSTRACT: Animal listeriosis has increased in the USSR over the past 9 years. Compared to 1956, 5 times as many animals are infected and 4 times as many die of the disease. Listeriosis cases show the following distribution: sheep (77.2%), pigs (21.81%), and cows (0.99%). The highest numbers of infected sheep and pigs are found in RSFSR, Kazakhstan and the Ukraine, and the highest numbers of infected cows are found in RSFSR, Kazakhstan and Azerbaidzhan. Whether the increased number of listeriosis cases can be attributed to actual spreading of the disease or improved diagnostic methods is difficult to determine at this time. Orig. art. has: 2 figures and 3 tables.

SUB CODE: 06/ SUBM DATE: none/ ORIG REF: 028/ OTH REF: 001

UDC: 619:616.981.136-036.2

Card 1/1

L 42151-65

ACC NR: AT6028379 SOURCE CODE: UR/0000/65/000/000/0142/0154

AUTHOR: Bachin, A. P.; Bekzhanov, G. R.; Brodovoy, V. V.; Gol'dshmidt, V. I.; Zhivoderov, A. B.; Zlavdinov, L. Z.; Ivanov, O. D.; Klenchin, I. N.; Kolmogorov, Yu. A.; Kotlyarov, V. M.; Kuz'min, Yu. I.; Kuminova, M. V.; Kunin, N. Ya.; Lyubetskiy, V. G.; Melent'yev, M. I.; Morozov, M. D.; Tret'yakov, V. G.; Tychkova, T. V.; Tsaregradskiy, V. A.; Eydlin, R. A.

ORG: none

TITLE: Geophysical sketch map of Kazakhstan

SOURCE: International Geological Congress. 22d, New Delhi, 1964. Geologicheskiye rezul'taty prikladnoy geofiziki (Geological results of applied geophysics); doklady sovetskikh geologov, problema 2. Moscow, Izd-vo Nedra, 1965, 142-154

TOPIC TAGS: ~~Kazakhstan~~ geophysics, map, ~~geophysical mapping~~, tectonics, ~~region~~ regional study

ABSTRACT: On the basis of regional geophysical and geological investigations (seismic, gravimetric, magnetoelectric), a composite geophysical sketch map of the physical fields of Kazakhstan has been compiled. From this map, the major tectonic zones, deep structures, and geological structural zones are defined. Long zones representing high field gradients in the gravitational and magnetic fields reflect deep geosutures, which seismic sounding data suggest are scarps in the M-discontinuity.

Card 1/2

ACC NR: AT6028379

Among the major structural zones of Kazakhstan defined are: 1) the Turgayskaya, 2) the Petropavlovskaya, 3) the Uspenskaya, 4) the Tokrauskaya, and 5) the Dzhalair-Naymanskaya. Regions of magmatism are also defined. In the tectonic depression zones, contour lines indicate the thickness of the sedimentary cover, overlying the folded basement, and possible oil-bearing formations. Orig. art. has: 1 figure.[DM]

SUB CODE: 08/ SUBM DATE: 06Jan65/ ATD PRESS: 506.3

Card 2/2

KOTLYAROV V. V.

KOTLYAROV, V.V., insh.

Hyperbolic bearings and their use in high-speed diesels. Energomashinostroenie 3 no.10:39-40 O '57. (MIRA 10:12)
(Diesel engines)

KOTLYAROV, V.V., inzh.

Straightening roller machines. Izobr.i rats. no.8:31 Ag '58.
(Rolling (Metalwork)) (MIRA 11:9)

DOROSHENKOV, S.N., inzh.; KOTLYAROV, V.V., inzh.

Principal trends in designing the pistons of high-speed diesel engines. Energomashinostroenie 7 no.4:42-44 Ap '61.
(MIRA 14:7)

(Diesel engines)

L 38721-66 EWT(l)/EWT(m)/T/EWP(t)/ETI/EWP(w) IJP(c) RM/WW/JD

ACC NR: AP6014154 (A,N) SOURCE CODE: UR/0114/65/000/012/0012/0015

AUTHOR: Kotlyarov, V. V. (Engineer); Abdushelishvili, L. Z. (Engineer)

35
33
B

ORG: None

TITLE: Strength of intake and exhaust valves in powerful high speed diesels

SOURCE: Energomashinostroyeniye, no. 12, 1965, 12-15

TOPIC TAGS: valve, diesel engine, nitridation, nitride, stress concentration, steel microstructure, MECHANICAL FAILURE

ABSTRACT: The authors study valve failure in powerful high speed diesels under increased motor capacity. Formulas are derived for calculating the strength of tulip valves. The calculation is based on the assumption that the tulip valve is a plate of variable cross section. A formula is given for this calculation

$$\sigma_r = \pm \frac{1{,}2P_r^{(2m-0.4)}}{H^2(1-\beta a^{0.4})}\left[\beta a^{0.4}(a^{2.4}-r^{2.4})-(a^2-r^2)r^{0.4}\right].$$

Valve failure is due to pronounced stress concentrators which appear during valve production. Nitriding of the valve stem is the main contributor to failure. Because of the complexity involved in protecting the tulip from nitriding, the entire valve is subjected to nitridation and the coating on the tulip is then removed by machining

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which contributes to stress concentration. Other operations produce nonuniform microstructure of the valve metal. This can be eliminated by reducing the stress concentration coefficients through alteration of production techniques. These techniques must include the removal of the nitrided layer from the tulip and should incorporate metallurigical measures for reducing nonuniformity of tulip and valve metal. The valve can be strengthened by increasing the height of the cross section or by nitriding the tulip surface. Orig. art. has: 4 figures, 1 table, 31 formulas.

SUB CODE:13,14/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 000

Card 2/2

SOV/117-58-11-18/36

AUTHORS: Kotlyarov, Ya.L., Engineer, and Tikhonov, M.N.

TITLE: The Manufacture of the Herringbone Wheels of a Gas Turbine Reduction Gear (Izgotovleniye shevronnykh koles gazoturbinnogo reduktora)

PERIODICAL: Mashinostroitel', 1958, Nr 11, pp 22 - 23 (USSR)

ABSTRACT: Herringbone wheels are made of steel type 38KhVFYu. The herringbones of Figure 1 are assembled on bolts, those of Figure 2 on a special setting. Cogs are cut as on spiral pinions. If the contact between the cogs is less than 80%, they are adjusted with electric carborundum Nr 280. After checking, the herringbone wheels are nitrated. There are 4 diagrams.

1. Reduction gears---Production 2. Gas turbines---Equipment

Card 1/1

KOTLYAROV, Ye.L.

DUVANKOV, Georgiy Semenovich; CHERNYAK, Ye.N., kandidat tekhnicheskikh nauk, redaktor; GIMPEL'SON, A.Z., redaktor; TEREMETSKIY, K.N., inzhener, retsenzent; KOTLYAROV, Ye.L., inzhener, retsenzent; GLADKIKH, N.N., tekhnicheskiy redaktor

[Safety measures and factory sanitation in building material plants] Tekhnika bezopasnosti i proizvodstvennaia sanitariia na zavodakh stroitel'nykh materialov. Pod red. IA.N. Cherniaka. Moskva, Gos. izd-vo lit-ry po stroit. materialam, 1956. 133 p. (MIRA 10:4)
(Building materials industry) (Factory sanitation)
(Factories—Safety appliances)

KOTLYAROV, Ye.

Urgent questions. Okhr. truda i sots. strakh. no.1:62-65 Jl '58.
(MIRA 11:12)

1.Glavnyy tekhnicheskiy inspektor TSentral'nogo komiteta profsoyuza rabochikh stroitel'stva i promyshlennosti stroitel'nykh materialov.
(Industrial hygiene--Research)

KOTLYAROV, Ye.L., inzh.

Eliminate harmful effect of vibrations on workers. Bezop. truda v pron. 2 no.2:20-21 F '58. (MIRA 11:2)

1. Glavnyy tekhnicheskiy inspektor TSentral'nogo komiteta profsoyuza rabochikh stroitel'stva i stroitel'nykh materialov.
(Vibration--Physiological effect)

KOTLYAROV, Ye.L., inzh.

Dust prevention at cement plants is a very important task.
Bezop. truda v prom. 2 no.8:22-23 Ag '58. (MIRA 12:7)
(Dust--Prevention) (Cement industries)

KOTLYAROV, Ye.L., inzh.

Mechanization of brickmaking. Bezop.truda v prom. 3 no.4:
19-20 Ap '59. (MIRA 12:6)
(Brickmaking)

KOTLYAROV, Ye.L., inzh.

Accelerate the over-all mechanization in stonecutting. Bezop.truda v prom. 3 no.8:18-19 Ag '59. (MIRA 12:11)
(Stonecutting--Machinery)

KOTLYAROV, Ye. (Moskva)

Temperature in workshops is within the prescribed limits. Okh. truda i sots. strakh. no.6:72-73 Je '59. (MIRA 12:10)
(Ashkhabad--Glass manufacture--Hygienic aspects)

KOTLYAROV, Ye., tekhn.inspektor

Cement workers of Novorossiysk. Okhr.truda i sots.strakh. no.8:48-51 Ag '59. (MIRA 12:11)
(Novororossiysk--Cement industries--Hygienic aspects)

15.(2)
AUTHOR: Kotlyarov, Ye. L.

SOV/72-59-9-9/16

TITLE: A Cooling Plant

PERIODICAL: Steklo i keramika, 1959, Nr 9, pp 34-37 (USSR)

ABSTRACT: At the Ashkhabad Glass Works, the outside temperature from May to September attains more than 40°, with a relative air humidity of from 20 to 26%. This has a bad effect on the state of health and productivity of the workers. Since various experiments with ventilating installations did not lead to a positive result, a cooling plant was built, the design of which was worked out by the "Giprosteklo"-Institute, and is shown in figures 1 and 2. Two vertical ammonia compressors of the type VP-180-4 by the "Compressor" Works, with a capacity of 200,000 kcal/h each were installed. The air is entered into the cooling chamber by a ventilator Nr 17 and then to the work-places by air-ducts. The cost for the cooling plant in the Ashkhabad-Works amounted to 440,000 rubles. For works situated in the temperate zone, cooling plants without ammonia compressors can be used, the cost of which does not exceed 100,000 rubles. At a meeting of the TsK Presidium of the Workers' Union in the

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A Cooling Plant

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building- and building material industry, attended by functionaries of the "Giprosteklo"-Institute, the PKB of the Glass-Institute, and chief engineers of a number of glass works, it was decided to use similar cooling plants in all glass works of the southern region, producing window glass and tableware. Such installations must be provided at new projects of machine-continuous glass melting furnaces, for the benefit of health and productivity. There are 2 figures.

ASSOCIATION: Ashkhabadskiy stekol'nyy zavod imeni Kalinina (Ashkhabad Glass Works imeni Kalinin)

Card 2/2

KOTLYAROV, Ye.L.; GALKIN, N.P., inzh., nauchnyy red.; KRYUGER, Yu.V., red. izd-va; GOL'BERG, T.M., tekhn. red.

[Safety engineering guide for mechanics and lubricators in cement plants] Pamiatka po tekhnike bezopasnosti dlia motorista-smazchika tsementnogo zavoda. Moskva, Gos. izd-vo lit-ry po stroit., materialam, 1960. 7 p. (MIRA 14:7)
(Cement plants—Safety measures)

KOTLYAROV, Ye.

Industrial hygiene? This is not our field.... Okhr.truda i sots.strakh. 3 no.6:29-32 Je '60. (MIRA 13:7)

1. Tekhnicheskiy inspektor TSentral'nogo komiteta profsoyuza rabotnikov stroitel'stva i promyshlennosti stroymaterialov.
(Factories--Design and construction)
(Industrial hygiene)

KOTLYAROV, Ye.L.

Group of workers of the "Avtosteklo" Plant in Konstantinovka in the drive for technical progress. Stek. i ker. 17 no.10: 38-40 '60. (MIRA 13:10)
(Konstantinovka--Glass manufacture)

KOTLYAROV, Ye.L., inzh.; KLUTS, L.Ya., inzh., spets. red.; AZRILYANT, Ya.M., red. izd-va; GILENSON, P.G., tekhn. red.

[Collected official materials on work safety for the building materials industry] Sbornik ofitsial'nykh materialov po okhrane truda na predpriiatiiakh stroitel'nykh materialov. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 371 p. (MIRA 14:9)

1. Profsoyuz rabochikh stroitel'stva i promyshlennosti stroitel'nykh materialov.
(Building materials industry--Safety measures)

KOTLYAROV, Yevgeniy L'vovich; RYAZANTSEVA, L.I., red.; TARKHOVA, K.Ie., tekhn. red.

[Safety manual for operators of rotary kilns (kiln tenders)] Pamiatka po tekhnike bezopasnosti dlia mashinistov vrashchaiushchikhsia pechei (obzhigal'shchikov). Izd.2., perer. i dop. Moskva, Gosstroiizdat, 1963. 25 p. (MIRA 16:9)
(Kilns, Rotary—Safety measures)

KOTLYAROV, Yevgeniy L'vovich; ZVORYKINA, L.N., red. izd-va; MIKHEYEVA, A.A., tekhn. red.

[Manual of safety measures for gas fitters] Pamiatka po tekhnike bezopasnosti dlia gazovshchika seti. Izd. 2., perer. i dop. Moskva, Gosstroiizdat, 1963. 29 p. (MIRA 16:6)
(Gas fitting--Safety measures)

MAZURENKO, Grigoriy Iovich; PODOROZHNYY, P.G., dotsent, otv.red.; KOTLYAROV, Yu.L., red.; MALYAVKO, A.V., tekhred.

[Diseases of the liver and the biliary tracts and their treatment at the Truskavets Health Resort] Zabolevaniia pecheni i zhelchnykh putei i ikh lechenie na kurorte Truskavets. L'vov, Izd-vo L'vovskogo univ., 1960. 92 p. (MIRA 13:7)
(LIVER--DISEASES) (BILIARY TRACT--DISEASES)
(TRUSKAVETS--MINERAL WATERS)

GLINKA, N.L.; KOTLYAROV, Yu.L., red.; MALYAVKO, A.V., tekhn. red.

[Problems and exercises in general chemistry] Zadachi i uprazhneniia po obshchei khimii. L'vov, Izd-vo L'vovskogo univ., 1963. 235 p. (MIRA 17:2)

IVANOV, Mikhail Nikolayevich, prof., doktor tekhn.nauk; KOMAROV, Mikhail Stepanovich, prof., doktor tekhn.nauk; DOBROVOL'SKIY, V.A., prof., retsenzent; KURENDASH, R.S., dotsent, kand.tekhn. nauk, otv.red.; KOTLYAROV, Yu.L., red.; MALYAVKO, A.V., tekhn.red.

[Machine parts and hoisting and conveying machinery] Detali mashin i pod"emno-transportnye mashiny. L'vov, Izd-vo L'vovskogo univ., 1961. 587 p. (MIRA 15:2)

1. Moskovskoye vysshoye tekhnicheskoye uchilishche im. Baumana (for Ivanov). 2. L'vovskiy politekhnicheskiy institut (for Komarov). 3. Odesskiy politekhnicheskiy institut (for Dobrovol'skiy).
(Hoisting machinery) (Conveying machinery)

SKOROBOGAT'KO, V.Ya.; KUKS, L.M., otv. red.; KOTLYAROV, Yu.L., red.; SARANYUK, T.V., tekhn. red.

[Study of the qualitative theory of partial differential equations] Issledovanie po kachestvennoi teorii differentsial'nykh uravnenii s chastnymi proizvodnymi. L'vov, Izd-vo L'vovskogo univ., 1961. 124 p. (MIRA 15:4)
(Differential equations, Partial)

GORSHENIN, Nikolay Maksimovich; BUTEYKO, Aleksandra Ivanovna; KOTLYAROV, Yu.L., red.; BURKATOVSKAYA, TS.A., tekhn.red; MALYAVKO, A.V., tekhn. red.
[Determining the types of forest sites]Opredelenie tipov uslovii mestoproizrastaniia. Izd.2. L'vov, Izd-vo L'vovskogo univ., 1962. 229 p. (MIRA 16:4)
(Forest ecology)

RYABCHENKO, I.Ya.; SIDOROV, A.P., dots., otv. red.; KOTLYAROV, Yu.L., SARANYUK, T.V., tekhn. red.

[Modern forms and advanced methods for the adoption of the manufacture of new machinery designs] Sovremennye formy i progressivnye metody osvoeniia proizvodstva novykh konstruktsii mashin. L'vov, Izd-vo L'vovskogo univ., 1963. 93 p.
(MIRA 16:6)

(Machinery industry--Management)

MAZURENKO, Grigoriy Iovich; ROMANYAK, M.I., doktor med. nauk, otv. red.; KOTLYAROV, Yu.L., red.; MALYAVKO, A.V., tekhn. red.

[Treatment of patients with chronic diseases of the liver and bile ducts at the Truskavets Health Resort] Lechenie bol'nykh s khronicheskimi zabolevaniiami pecheni i zhelchnykh putei na kurorte Truskavets. Izd-vo L'vovskogo univ. n.p. 1963. 133 p. (MIRA 16:12)
(LIVER—DISEASES) (BILE DUCTS—DISEASES)
(TRUSKAVETS—HEALTH RESORTS, WATERING PLACES, ETC.)

GLUSHCHENKO, Il'ya Petrovich; KOMAROV, M.S., doktor tekhn. nauk prof., otv. red.; KOTLYAROV, Yu.L., red.

[Fundamentals of the design of chain transmissions with bushed-roller chains] Osnovy proektirovaniia tsepnykh peredach s vtulochno-rolikovymi tsepiami. L'vov, Izd-vo L'vovskogo univ., 1964. 225 p. (MIRA 17:9)

PANKRAT'YEV, Yu.N.; PUZANOV, B.S.; SERDYUKOV, V.M.; VIDUYEV, N.G., doktor tekhn. nauk, prof., red.; KOTLYAROV, Yu.L., red.

[Engineering photogrammetry] Inzhenernaia fotogrammetriia. L'vov, Izd-vo L'vovskogo univ., 1964. 283 p. (MIRA 18:2)

DRUTMAN, Z.S.; PAMFILOV, A.V., prof., retsenzent; KRAVETS, V.P., prof., retsenzent; SIVER, P.Ya., dots., retsenzent; GRITSENKO, A.P., dots., retsenzent; KOSTYREV, A.I., prof., retsenzent; KOTLYAROV, Yu.L., red.

[Structure of molecules] Stroenie molekul. L'vov, Izd-vo L'vovskogo univ., 1962. 213 p. (MIRA 18:6)

TSYBYK, B.I.; STOYKO, S.M., kand. biol. nauk, otv. red.; KOTLYAROV, Yu.L., red.

[Guide to the identification of the wood of tree species of the western provinces of the Ukrainian S.S.R. (based on macroscopic indices)] Opredelitel' drevesiny drevesnykh porod zapadnykh oblastei USSR (po makrostkopicheskim priznakam). L'vov, Izd-vo L'vovskogo univ., 1963. 52 p. (MIRA 18:6