IVANOV, S. K.

15-57-1-1112D

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 1, p 177 (USSR)

AUTHOR: Ivanov, S. K.

TITLE: Determining the Curvature of Drill-Holes Passing Through the Ferromagnetic Deposits (Izmereniye krivizny skvazhin, prokhodyashchikh v ferromagnitnykh sredakh)

ABSTRACT: Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Science, presented to the L'vov Polytechnic Institute (L'vovsk. politekhn. in-t), L'vov, 1956

ASSOCIATION: L'vovsk. politekhn. in-t (L'vov Polytechnic Institute)

Card 1/1

IVANOV, S.K., kand. tekhn. nauk; MIKHAYLOVSKIY, V.N., kand. tekhn.nauk

Measuring the azimuth of underground coal gasification boreholes in presence of geomagnetic field anomalies. Podzem. gaz. ugl. no4: 59-62 '58. (MIRA 11:12)

1.Institut mashinovedeniya AN USSR.
(Mine surveying) (Magnetic measurements)

GOLOVCHENKO, B.F.; IVANOV, S.K.

Experimentally checking the accuracy of borehole curvature measurements by the method of consecutive traverses. Podzem. gaz. ugl. no.4:62-64 '58. (MIRA 11:12)

1.Kontora opytnogo napravlennogo bureniya, Institut mashinostroyeniya AN USSR.
(Mine surveying) (Borings)

BARON, Lazar' Izrailevich; prof., doktor tekhn.nauk; SIMONYAN, Yevgeniy Arshakovich; BANKETOV, A.K., gorn.inzh., retsenzent; IVANOV, S.K., retsenzent; SHOSTAK, A.G., retsenzent; SMOLDYREV, A.Ye., red.; PARTSEVSKIY, V.N., red.izd-va; ISLENT'YEVA, P.G., tekhn.red.

[Chute loading in underground ore mining] Liukovaia pogruzka pri podzemnoi dobyche rud. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1959. 206 p. (MIRA 12:6)

(Loading and unloading) (Ore handling)

SOV/132-59-5-6/17

16(1)
14(5)

AUTHOR: Ivanov, S.K.

TITLE: On the Theoretical Premises of Measuring the Bending of Bore Holes by the Method of Oriented Bars.

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 5, pp 25-30 (USSR)

ABSTRACT: The indirect methods of measuring the bending of bore-holes in the regions with anomalous geomagnetic fields are widely used in the USSR and abroad. They are: the method of orientation from the surface and the method of consecutive moves. By these methods the zenithal angle θ and the apsidal angle φ are determined with a theodolite. The azimuth of the bore hole - the α angle is a function of the φ and θ angles, that means:

$$\alpha = f(\varphi, \theta)$$

The method of the orientation from the surface was developed in Sweden, also where the device for measuring the bending

On the Theoretical Premises of Measuring the Bending of Bore Holes by the Method of Oriented Bars.

of bore-holes was constructed. Its measuring element was based on the application of the principle of the free level of the liquid. The mathematical basis of the method was expressed by a series of formulae of which the most important was:

$$\Delta\alpha = \frac{\Delta\varphi}{\cos\theta}$$

This formula later underwent many changes. N.O. Yakobi proposed a new variation of this formula

$$\sin\Delta\alpha = \frac{\sin\Delta\varphi}{\cos\theta}$$

In his latest work he proposed a new modification:

$$\operatorname{tg}\alpha = \operatorname{tg}\varphi \times \cos\theta$$

This formula was checked and approved by the VITR in 1957 and is presently used for determining the azimuthal angles of a

On the Theoretical Premises of Measuring the Bending of Bore Holes by the Method of Oriented Bars.

bent bore-hole. In this article, the author considers this formula as being built on incorrect premises and the error in determining the azimuth of the bent bore-hole is in some cases from 10 to 20°. His analysis of the above formula is given in detail. He reaches the conclusion that, if the whole length of the bore hole is divided in n sections, the azimuth for the first section (where θ =2 or 3°) is equal to the apsidal angle, that is:

$$\alpha_1 = \varphi_1$$

Developing his findings by analytical and graphical calculations, he proposed the following formula:

$$\sin \Delta\alpha_n = \frac{\sin \Delta\varphi_n}{\cos \frac{\theta_n + \theta_{n-1}}{2}}$$

This formula expresses the function between the variation of the azimuth of a bent bore-hole and the increase of the

On the Theoretical Premises of Measuring the Tending of Bore Holes by the Method of Oriented Bars.

apsidal angle with the known zenithal angle θ. Thus, the azimuth of any given section of a bent bore-hole can be expressed by the following formula:

$$a_n = \varphi_1 + \sum_{i=2}^{i=n} \arcsin \frac{\sin \Delta\varphi_i}{\cos \frac{\theta_i + \theta_{i-1}}{2}} \qquad (13)$$

The azimuth will be exact if the chosen direction is northern. If its direction is arbitrary the azimuth will be conditional. There are 3 diagrams and 7 Soviet references.

ASSOCIATIONS: IPA AN USSR (IPA of AS Ukr SSR).

IVANOV, S.K

PHASE I BOOK EXPLOITATION SOV/5167

Mikhaylovskiy, Vladimir Nikolayevich, and Stepan Konstantinovich Ivanov

Izmereniye krivizny skvazhin (Measuring Well Deviation) Kiyev, Izd-vo AN UkrSSR, 1960. 181 p. 2,000 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut mashinovedeniya i avtomatiki.

Ed. of Publishing House: N. M. Titova; Tech. Ed.: O. A. Kadashevich.

PURPOSE: This book is intended for engineers and technicians interested in problems of the development and application of instruments used for measuring well deviation.

COVERAGE: The book discusses the theory and methods for measuring the deviation of wells, considers the basic characteristics of possible transmission channels of information from the bottom face to the mouth of the borehole, and describes the principles of

Card 1/7

IVANOV, S.K.; LEVKOV, P.V.

Methods for controlling the hydrate formation in the Shebelinka gas field. Gaz. prom. 6 no.11:10-13 '61. (MIRA 15:1)
(Shebelinka region--Gas, Natural--Hydrates)

L 34092-66 EWT(m)/EWP(j)/T WW/JW/RM

ACC NR: AP6012924 SOURCE CODE: UR/0020/66/167/005/1105/1108

43
42
B

AUTHOR: Skibida, I.P.; Mayzus, Z.K.; Ivanov, S.K.; Emanuel', N.M. (Corresponding member AN SSSR)

ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR)

TITLE: Mechanism of the chain propagation reaction in liquid-phase oxidation processes in the presence of salt catalysts and cobalt stearate

SOURCE: AN SSSR. Doklady, v. 167, no. 5, 1966, 1105-1108

TOPIC TAGS: free radical, hydroperoxide, oxidation kinetics, oxidation inhibition, cobalt compound, decane

ABSTRACT: In order to determine whether the products of catalytic oxidation of n-decane are formed and consumed by a chain or a molecular mechanism, an inhibitor was introduced into the oxidation reaction, which was already under way. To n-decane oxidized to a certain degree was added cobalt stearate (1.2×10^{-3} mole/liter), followed 15 min later by the inhibitor N-phenyl-β-naphthylamine or α-naphthol (about 5×10^{-5} mole/liter). Following the introduction of the inhibitor, the curves of the accumulation of all the products showed a sharp break, and the products ceased to be formed. This is interpreted as evidence that in the reaction of catalyzed oxidation, alcohols, ketones, and acids are formed and consumed by a chain mechanism. The majority of the oxidation products were found to form directly from

UDC: 541.128.2

Card 1/2

ACC NR: AP6035204 (A) SOURCE CODE: UR/0066/66/000/009/0030/0032

AUTHOR: Ivanov, S. K.; Skripnikov, V. B.

ORG: Dongiprouglemash

TITLE: KPSh40P movable mine air conditioner with pneumatic drive

SOURCE: Kholodil'naya tekhnika, no. 9, 1966, 30-32

TOPIC TAGS: air conditioning equipment/KPSh40P air conditioner

ABSTRACT: Dongiprouglemash has designed a KPSh40P movable air conditioning unit with a pneumatic drive to be used in mines. The Odessa Refrigeration Equipment Plant has produced the experimental model. The unit (Fig. 1) is mounted on a special lorry on 600- to 900-mm wide gage rails. In the summer of 1965, the air conditioner was successfully tested at the "Kochegarka" mine of the Gorlovskugol' Trust of Artemugol' Complex. Serial production of the new air conditioner is planned for 1967 at the Odessa Refrigeration Equipment Plant. [GC]
Orig. art. has: 4 figures.

UDC: 628.83

Card 1/2

ACC NR: AP6035204

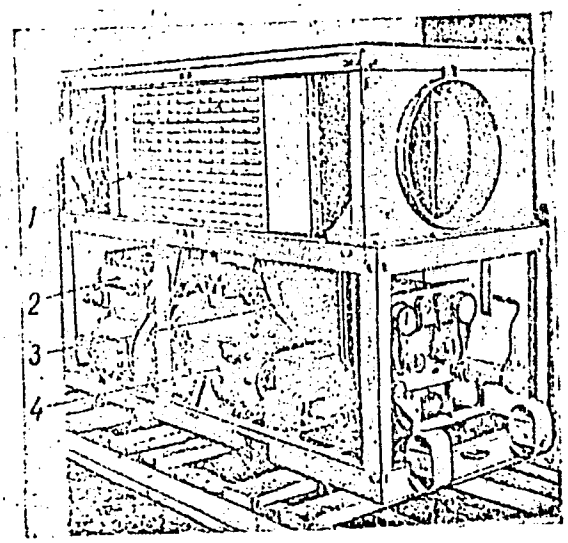


Fig. 1. Overall view of the KPSh40P movable air conditioning unit with pneumatic drive.
1—Refrigerating machine;
2—FV-20 freon compressor;
3—jacketed condenser;
4—PRSh16M pneumatic drive

SUB CODE: 13/SUBM DATE: none/

Card 2/2

KATKOV, N.P., kand. tekhn. nauk; IVANOV, S.K., starshiy prepodavatel'

Determining geometrical parameters of a lever-pinion mechanism of a double-action press with an accelerated cycle. Izv. vys. uchob. zav., mashinostr. no.9:150-165 '65. (MIRA 18:11)

MAKSIMOV, V.P.; KHOLOSHYNA, G.G.; IVANOV, S.K.; LEVKOV, P.V.

Operation of an automated system of gas gathering points in the Shebelinka gas field. Neft. i gaz. prom. no.1:53-56 Ja-Mr '64. (MIRA 18:2)

BUTAYEV, O.A.; IVANOV, S.K.; KROSHKO, A.N.; MASKEVICH, V.D.

Investigating gas pipelines as radio wave guides. Gaz. prom. 7 no.6:43-48 '62. (MIRA 17:6)

ANDREEV, St.; TOSHKOV,D.; IVANOV,Sl.; SHOPOV, D.

Comparative stand testing of the regenerated motor oil 18 with addition of DM-3B and ZIATIM-339 in a full-sized motor. Khim i industriia 36 no.5:187-188 '64

SHOPOV, D.; IVANOV, Sl.

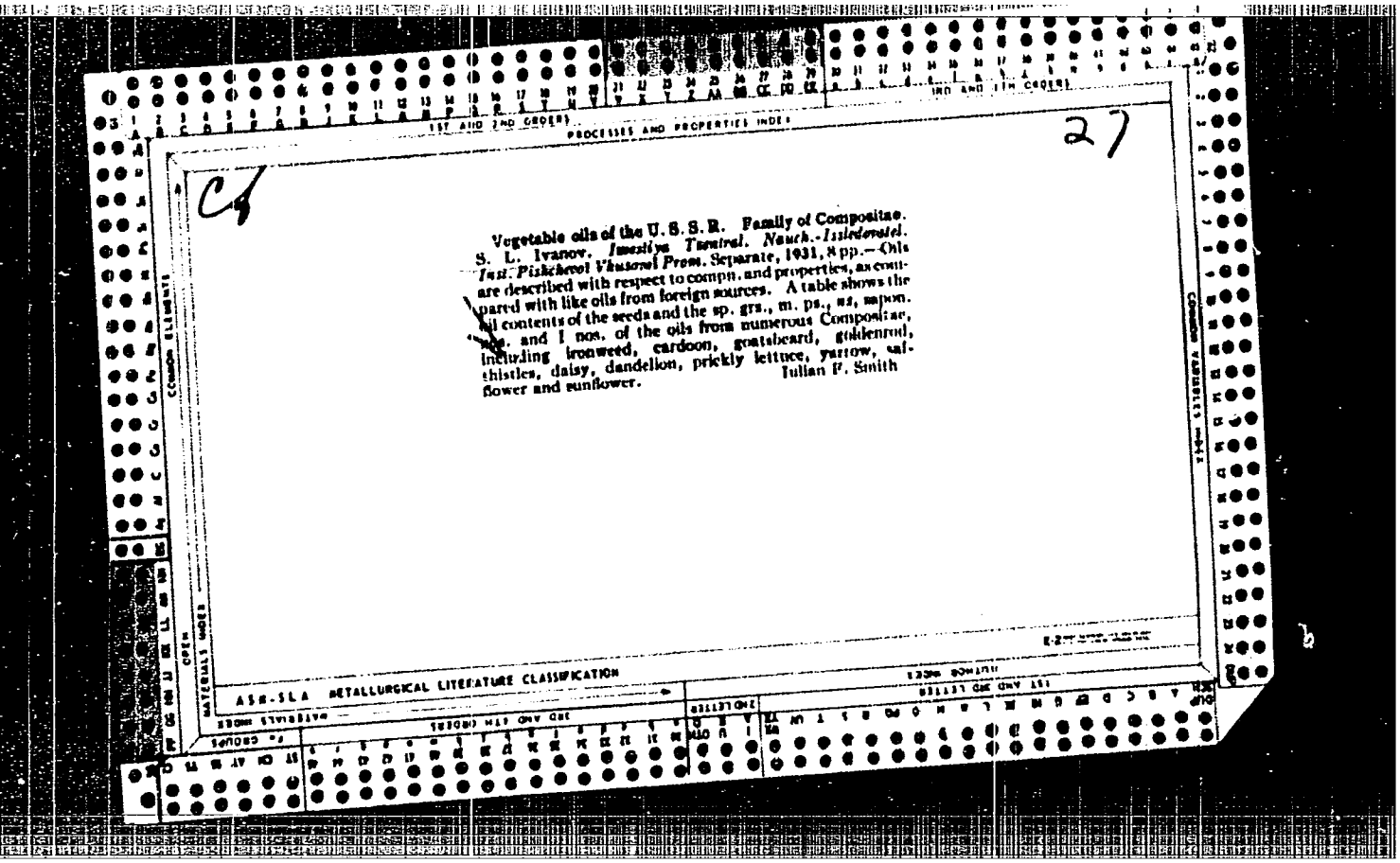
Production of multifractional additions based on the cracking benzine of the Tyulenovo petroleum. Izv. Inst khim BAN no.8:239-246 '61.

The vegetable oils of U. S. S. R. V. Oils of the family of Capparidaceae and climatic conditions. S. L. Ivanov and I. S. Elakov. *Chem. Umschau Fette, Oele, Wachse, u. Harze* 37, 83-4(1930); cf. *C. A.* 24, 1238.—Capparidaceae, native plants of the tropics and subtropics, follow the natural law of developing min. amts. of olein and linolin in the tropics, but max. amts. in colder regions and at higher altitudes. Analyses are reported of the oil from seeds of *Capparis herbacea* Willd from the Crimea and from Turkestan:

	Karadagh North Lat. 45°	Taschkent North Lat. 41°
Wt. of 1000 seeds	7.000 g.	6.073 g.
Oil	30.00%	28.21%
d_{15}	0.9102	0.9114
Sapon. no.	190.51	200.0
I no.	105.4	110
R.-M. no.	1.1	......
Butter refract. 25°	70.5	......
Hexabromides	0.0	0.0
Color	Light red	Light red
Consistency	liquid	liquid
Acids:		
Thiocyanate no.	75.80	......
Satd. acids %	12.12	......
Oleic acid %	54.35	
Linoleic acid %	33.58	

P. Escher

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



C4

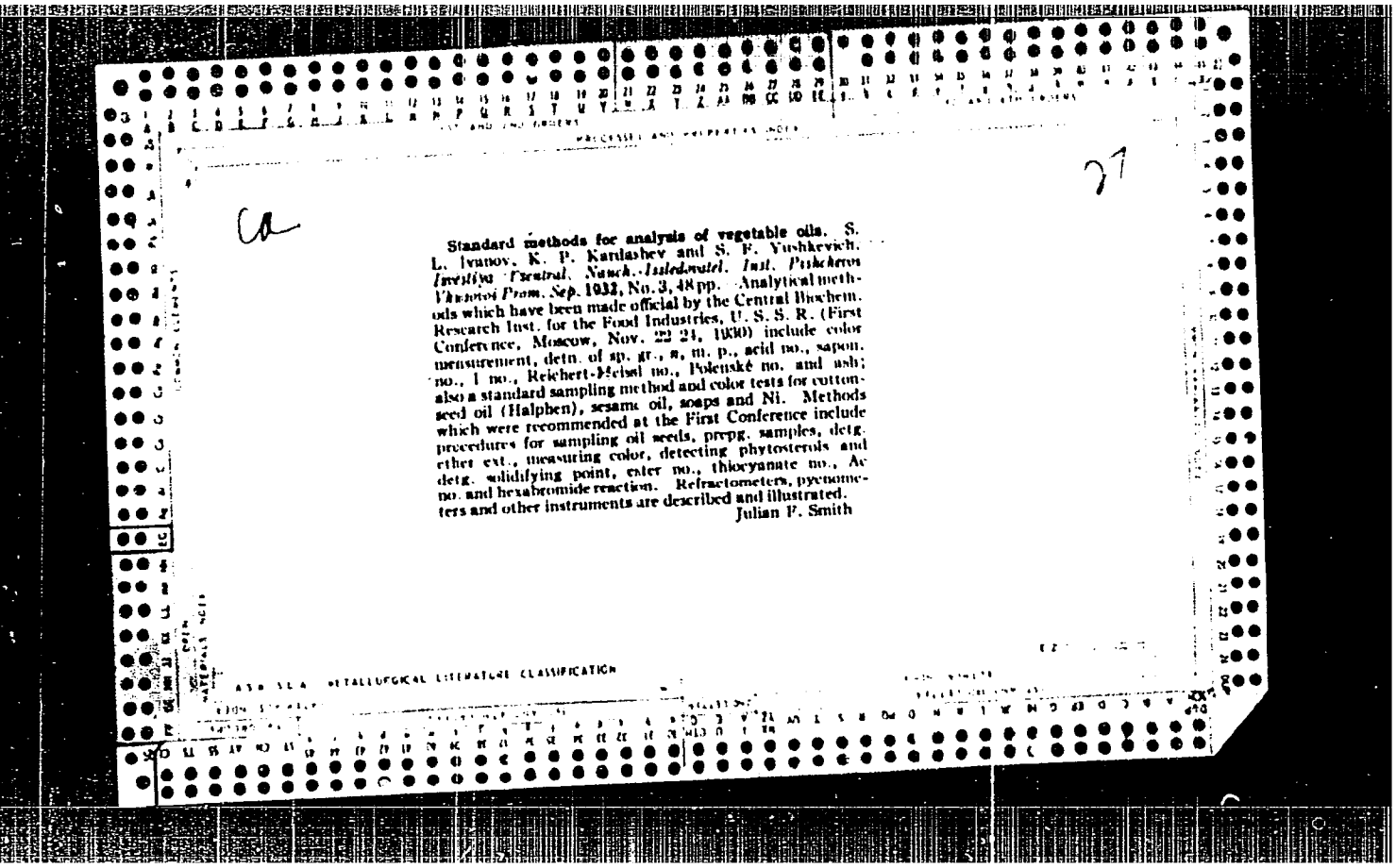
27

Vegetable oils of the U. S. S. R. Family of Compositae. S. L. Ivanov. *Imeniya Tsentral. Nauch.-Issledovatel. Inst. Pishchevoi Vkusovoi Prom.* Separate, 1931, 8 pp.—Oils are described with respect to compn. and properties, as compared with like oils from foreign sources. A table shows the oil contents of the seeds and the sp. grs., m. ps., ns, saponn. nos. and I nos. of the oils from numerous Compositae, including ironweed, cardoon, goatsbeard, goldenrod, thistles, daisy, dandelion, prickly lettuce, yarrow, safflower and sunflower.

Julian F. Smith

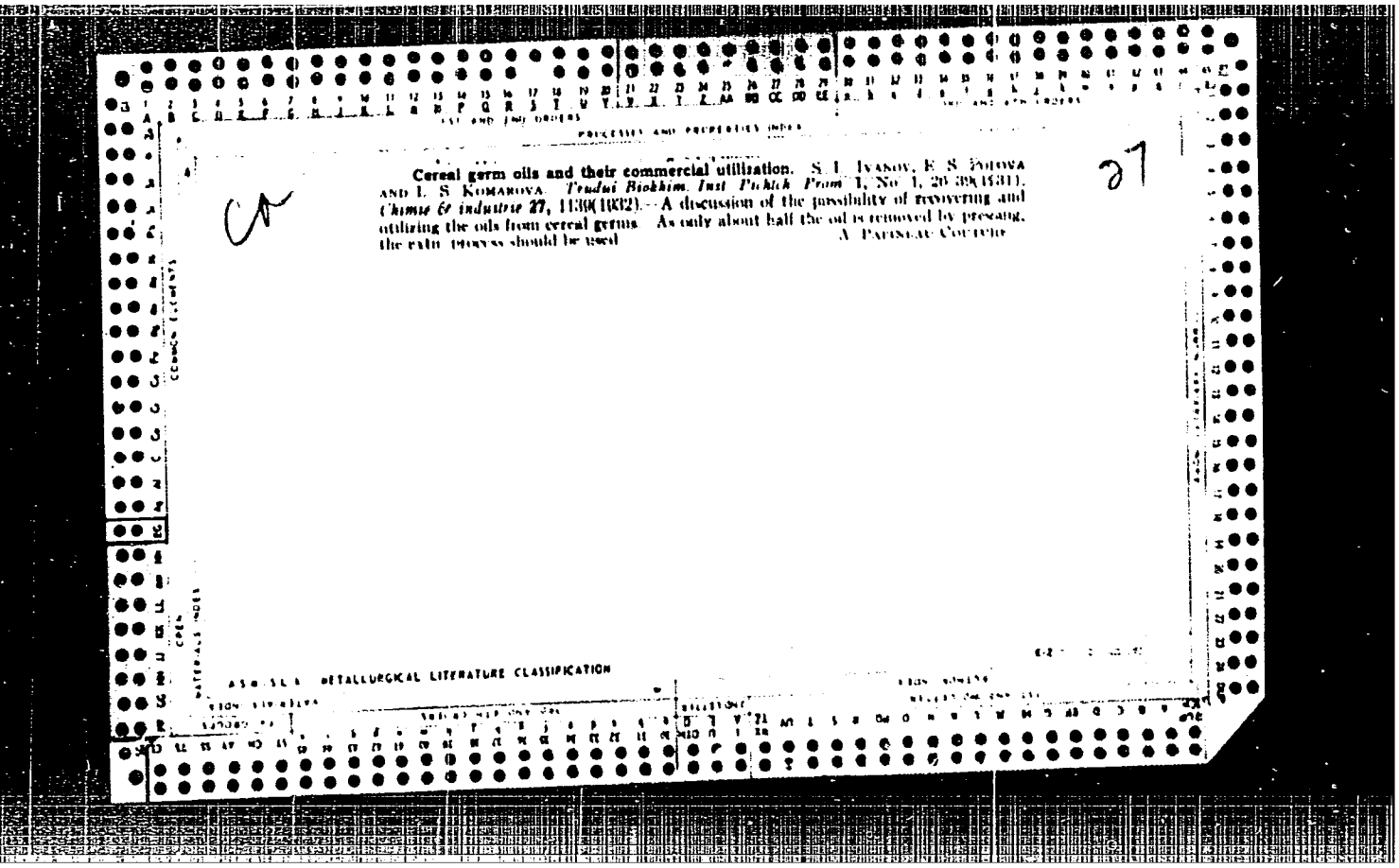
IVANOV, S. A.

Vegetable oils in the USSR
Moskva, Gos. Torg. Izd-vo, 1931
37 p.



Standard methods for analysis of vegetable oils. S. L. Ivanov, K. P. Kartashev and S. F. Yushkevich. *Izvestiya Tsentral. Nauch.-Issledovatel. Inst. Pishchevoi Vkusovoi Prom.* Sep. 1932, No. 3, 48 pp. Analytical methods which have been made official by the Central Biochem. Research Inst. for the Food Industries, U. S. S. R. (First Conference, Moscow, Nov. 22-24, 1930) include color measurement, detn. of sp. gr., n, m. p., acid no., sapon. no., I no., Reichert-Meissl no., Polenské no. and ash; also a standard sampling method and color tests for cottonseed oil (Halphen), sesame oil, soaps and Ni. Methods which were recommended at the First Conference include procedures for sampling oil seeds, prepg. samples, detg. ether ext., measuring color, detecting phytosterols and detg. solidifying point, ester no., thiocyanate no., Ac no. and hexabromide reaction. Refractometers, pycnometers and other instruments are described and illustrated.

Julian P. Smith



Cereal germ oils and their commercial utilization. S. I. Ivanov, E. S. Zolova and L. S. Komarova. *Trudui Biokhim. Inst. Pishch. Prom.* 1, No. 1, 20-39(1931). *Chimie & industrie* **27**, 1139(1932).—A discussion of the possibility of recovering and utilizing the oils from cereal germs. As only about half the oil is removed by pressing, the extn. process should be used. A. Papineau-Couture

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

BC

G II 7

Solanaceous seed oils. S. L. Ivanov and A. J. Lyzmanko (Sektr. sents. biochem. Forschungsinst. Nahr.-Genussm., Russia, 1933, 3, 219—236).—Henbane- and thornapple-seed oils are similar to tobacco- and tomato-seed oils; the alkaloids are insol. in oil, and the oils are non-toxic and edible. Max. oil content occurs at a middle stage of ripeness; acid val. and I val. decrease as ripening progresses. CH. ABS.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

COMMON VARIABLES INDEX

MATERIALS INDEX

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

Cedar-nut oil of western Siberia. S. L. Ivanov and S. B. Resnikova (Schr. zentr. biochem. Forschungs-inst. Nahr.-Genussm., Russia, 1933, 3, 239—245).—Oil from nuts of *Pinus cembra*, L., contained chiefly oleic (32·49—35·62), linoleic (31·12—34·23), and linolenic (I) (16·57—27·75%) acids. (I) is highest in oil from northerly regions. Ch. Abs.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND ORDERS

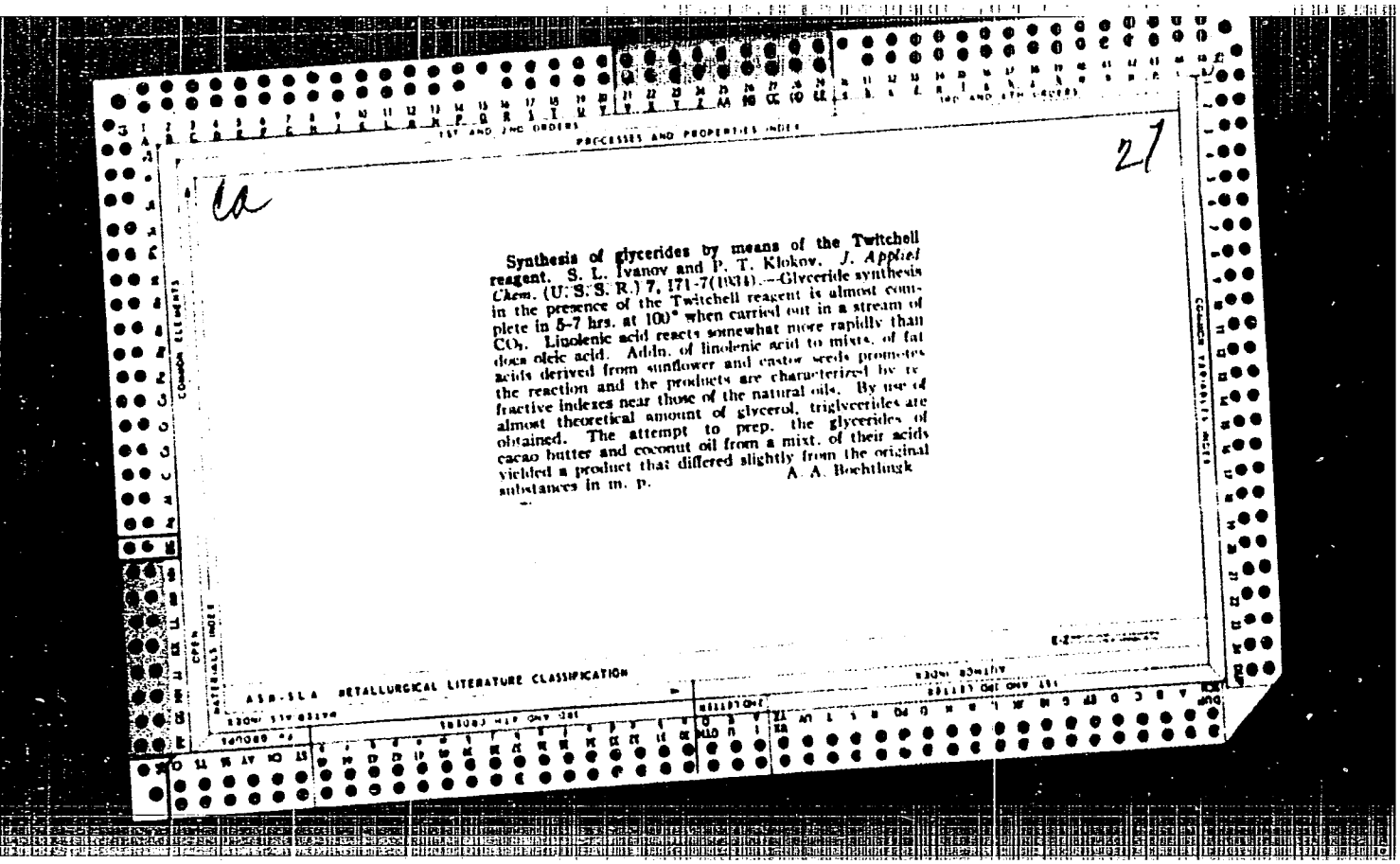
PROCESSES AND PROPERTIES INDEX

BC

C II 7

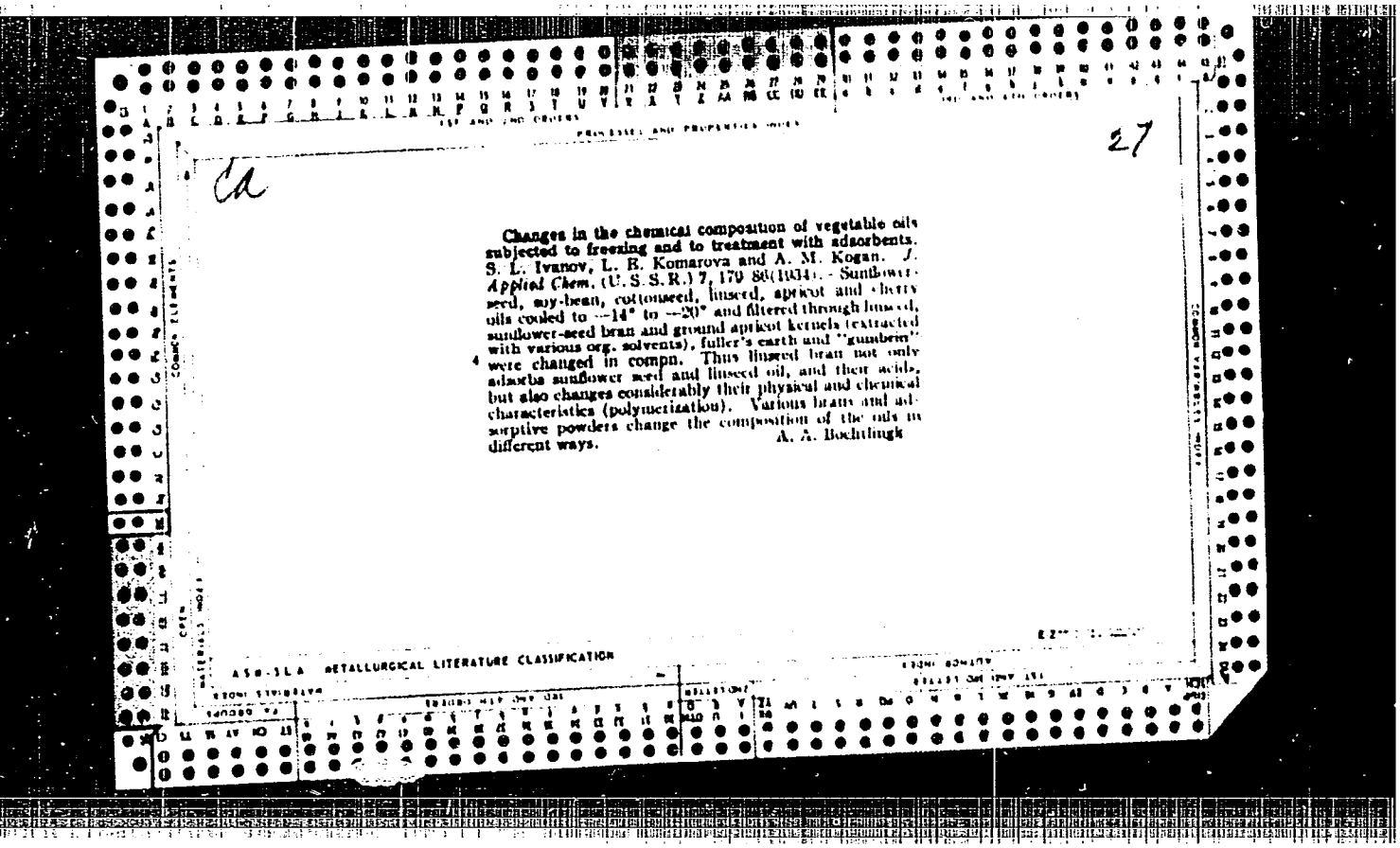
Walnut oil in Russia. S. L. Ivanov and E. E. Nekrashevich (Schr. zentr. Biochem. Forschungsinst. Nahr.-Genussm., Russia, 1933, 3, 244—250).—Walnuts are rich in protein and poor in cellulose. Oil from different parts of Russia varies little in composition. Acids are: linoleic 62·7, oleic 17·6, linolenic 10·0, saturated 9·4%. Ch. Abs.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Synthesis of glycerides by means of the Twitchell reagent. S. L. Ivanov and P. T. Klokov. *J. Applied Chem.* (U. S. S. R.) 7, 171-7(1934).—Glyceride synthesis in the presence of the Twitchell reagent is almost complete in 5–7 hrs. at 100° when carried out in a stream of CO_2. Linolenic acid reacts somewhat more rapidly than does oleic acid. Addn. of linolenic acid to mixts. of fat acids derived from sunflower and castor seeds promotes the reaction and the products are characterized by re fractive indexes near those of the natural oils. By use of almost theoretical amount of glycerol, triglycerides are obtained. The attempt to prep. the glycerides of cacao butter and coconut oil from a mixt. of their acids yielded a product that differed slightly from the original substances in m. p.

A. A. Boehtlingk



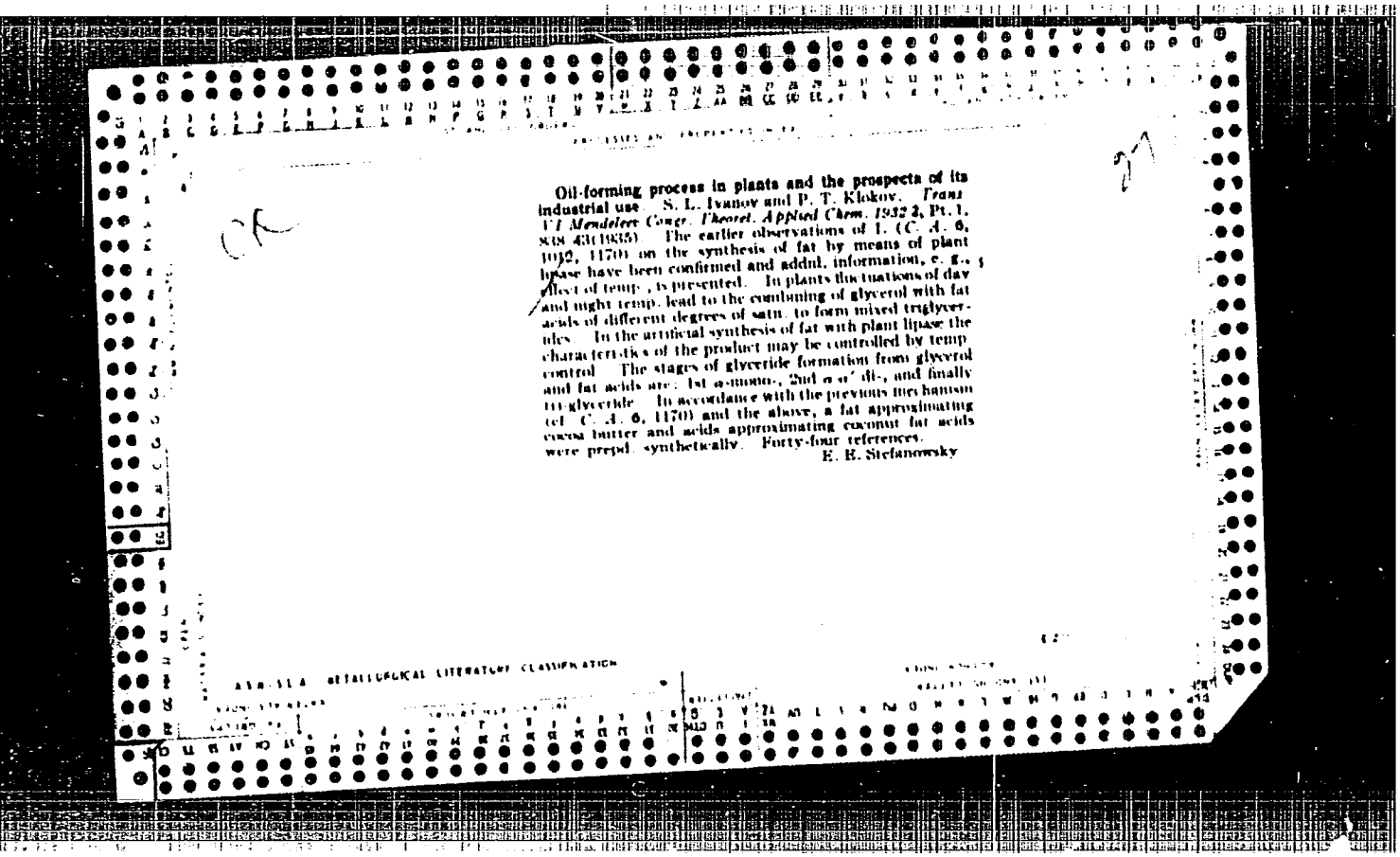
27

Ca

Changes in the chemical composition of vegetable oils subjected to freezing and to treatment with adsorbents. S. L. Ivanov, L. R. Komarova and A. M. Kogan. *J. Applied Chem.* (U.S.S.R.) 7, 179-80(1934).—Sunflower-seed, soy-bean, cottonseed, linseed, apricot and cherry oils cooled to −14° to −20° and filtered through linseed, sunflower-seed bran and ground apricot kernels (extracted with various org. solvents), fuller's earth and "gumbrin" were changed in compn. Thus linseed bran not only adsorbs sunflower seed and linseed oil, and their acids, but also changes considerably their physical and chemical characteristics (polymerization). Various brans and adsorptive powders change the composition of the oils in different ways.

A. A. Bochtlingk

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Oil-forming process in plants and the prospects of its industrial use. S. L. Ivanov and P. T. Klokov. *Trans. VI Mendeleev Congr. Theoret. Applied Chem. 1932* **3**, Pt. 1, 808-43(1935). The earlier observations of I. (*C. A.* **6**, 1092, 1170) on the synthesis of fat by means of plant lipase have been confirmed and addnl. information, e. g., on effect of temp., is presented. In plants the fluctuations of day and night temp. lead to the combining of glycerol with fat acids of different degrees of satn. to form mixed triglycerides. In the artificial synthesis of fat with plant lipase the characteristics of the product may be controlled by temp. control. The stages of glyceride formation from glycerol and fat acids are: 1st a-mono-, 2nd α,α′ di-, and finally tri-glyceride. In accordance with the previous mechanism (cf. *C. A.* **6**, 1170) and the above, a fat approximating cocoa butter and acids approximating coconut fat acids were prepd. synthetically. Forty-four references.

E. E. Stefanowsky

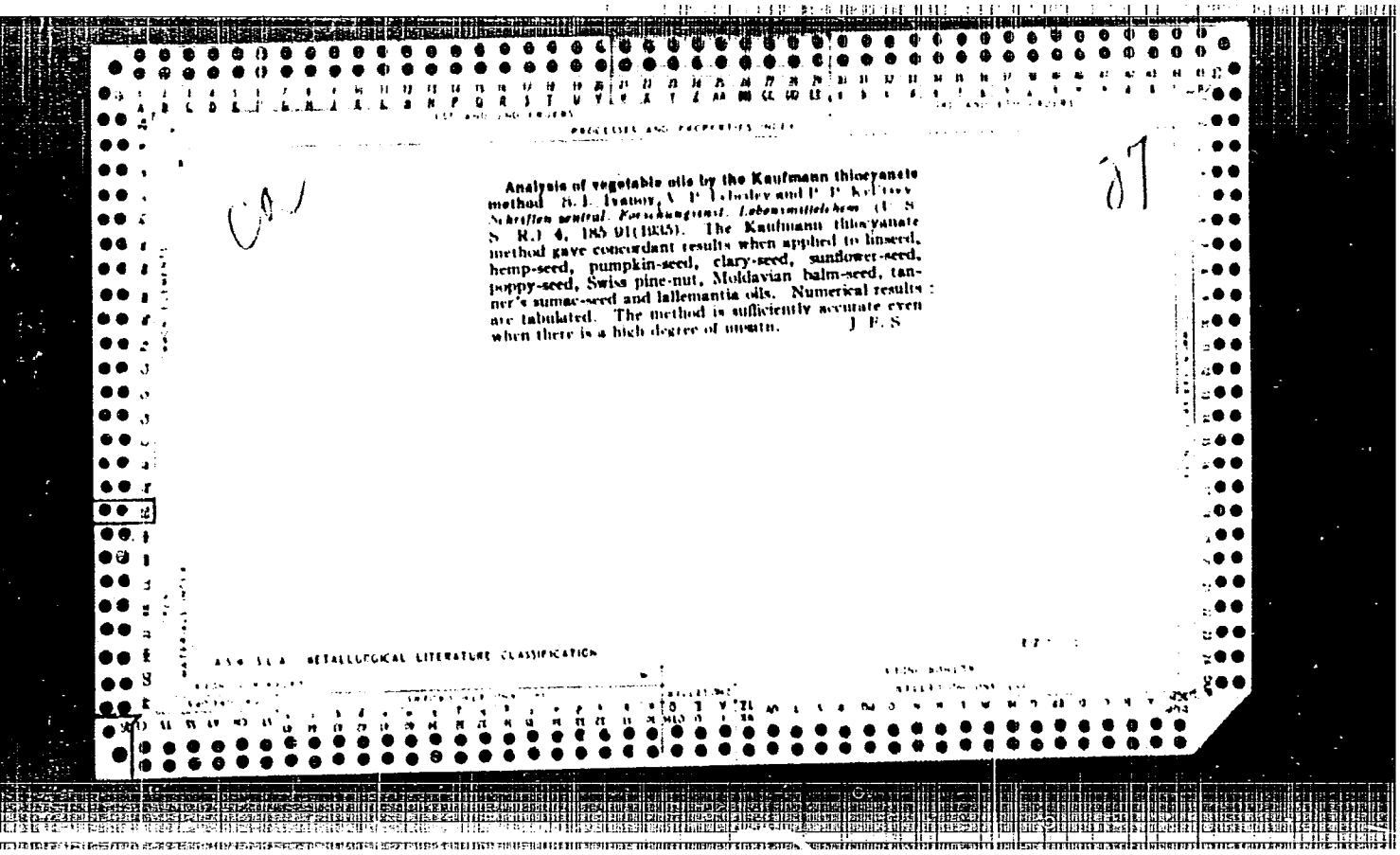
PROCESSES AND PROPERTIES INDEX

ca

Reagents for determining degree of rancidity in fats.
S. L. Ivanov, V. V. Maslennikov, A. M. Kogan and
M. L. Krol. *Schriften zentral. Forschungsinst. Leben-*
smittelchem. (U. S. S. R.) 4, 175-84(1935).—A compari-
son was made of the Kreis and Fellenberg color tests,
acid no., Scala's method (volatile acids), Issoglio's
oxidation method, the Taffel and Lajos-Száhlender perox-
ide methods and the Fahrion method for detg. rancidity.
The tests were made with Et oleate, Et esters of some unsat.
oil acids, soybean oil, raw and refined sunflower-seed oil,
linseed oil (with and without 1% paraffin oil) and goose
grease. Because of the no. and complexity of the factors
involved, the choice of reagent and method must be made
according to the nature of the oil and other circum-
stances. Results obtained by the various methods are
tabulated. Julian F. Smith

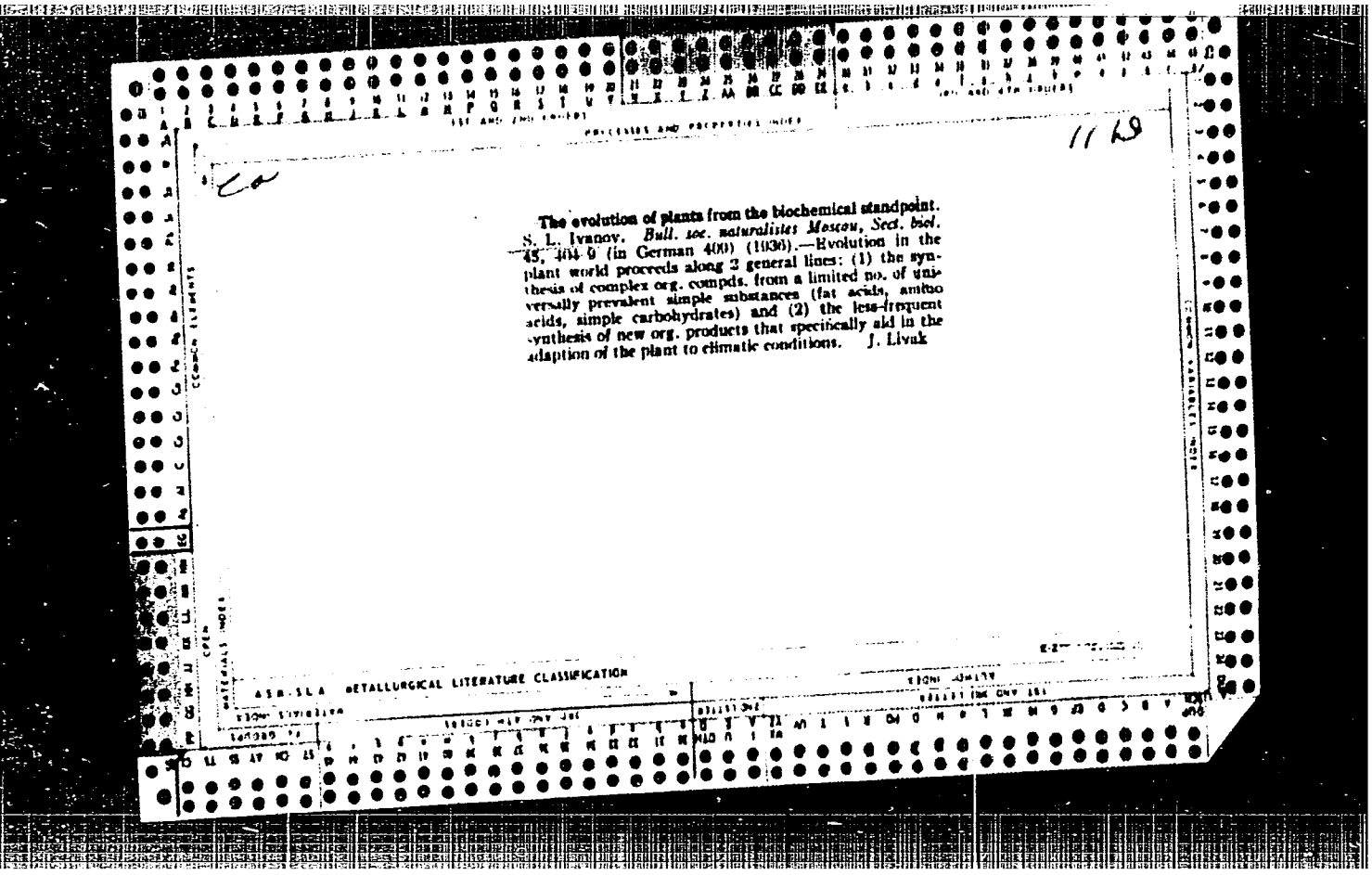
27

METALLURGICAL LITERATURE CLASSIFICATION

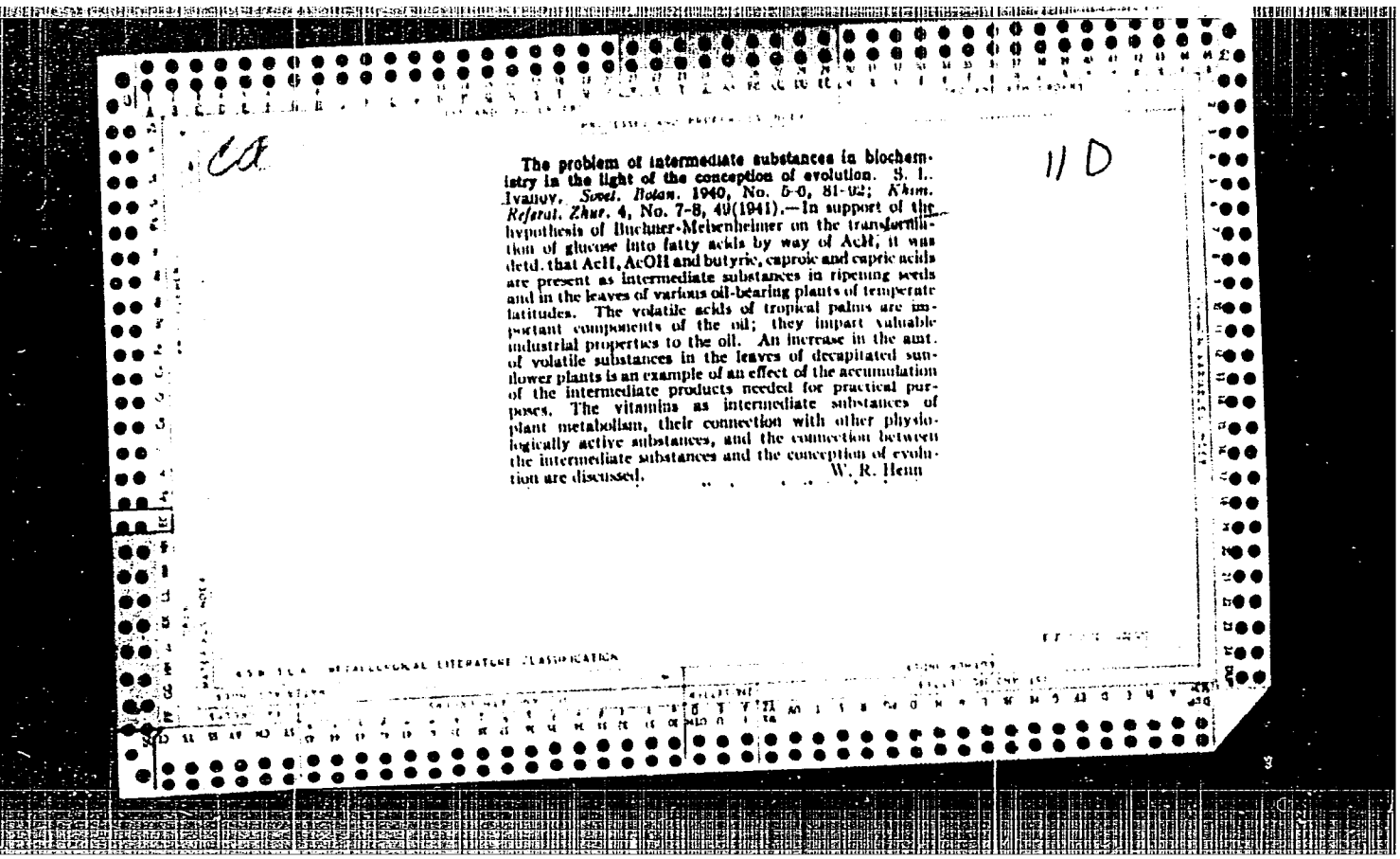


Analysis of vegetable oils by the Kaufmann thiocyanate method B. I. Ivanov, A. P. Lebedev and P. P. Kel'tsev. *Schriften zentral. Forschungsinst. Lebensmittelchem.* (U. S. S. R.) 4, 185-91(1935). The Kaufmann thiocyanate method gave concordant results when applied to linseed, hemp-seed, pumpkin-seed, clary-seed, sunflower-seed, poppy-seed, Swiss pine-nut, Moldavian balm-seed, tanner's sumac-seed and lallemantia oils. Numerical results are tabulated. The method is sufficiently accurate even when there is a high degree of unsatn. J. F. S.

A.S.T.M. METALLURGICAL LITERATURE CLASSIFICATION



The evolution of plants from the biochemical standpoint. S. L. Ivanov. *Bull. soc. naturalistes Moscou, Sect. biol.* 45, 404-9 (in German 409) (1936).—Evolution in the plant world proceeds along 2 general lines: (1) the synthesis of complex org. compds. from a limited no. of universally prevalent simple substances (fat acids, amino acids, simple carbohydrates) and (2) the less-frequent synthesis of new org. products that specifically aid in the adaption of the plant to climatic conditions. J. Livak



CA

11 D

The problem of intermediate substances in biochemistry in the light of the conception of evolution. S. I. Ivanov. *Sovet. Botan.* 1940, No. 5-6, 81-92; *Khim. Referat. Zhur.* 4, No. 7-8, 49(1941).—In support of the hypothesis of Buchner-Meisenheimer on the transformation of glucose into fatty acids by way of AcH, it was detd. that AcH, AcOH and butyric, caproic and capric acids are present as intermediate substances in ripening seeds and in the leaves of various oil-bearing plants of temperate latitudes. The volatile acids of tropical palms are important components of the oil; they impart valuable industrial properties to the oil. An increase in the amt. of volatile substances in the leaves of decapitated sunflower plants is an example of an effect of the accumulation of the intermediate products needed for practical purposes. The vitamins as intermediate substances of plant metabolism, their connection with other physiologically active substances, and the connection between the intermediate substances and the conception of evolution are discussed. W. R. Henn

IVANOV, S.L., doktor biologicheskikh nauk, professor; ITSKOVA, N.Ya., kandidat sel'sko-khozyaystvennykh nauk

[Squill] Morskoi luk. Pod red. N.IA. Itskova. Moskva, Gos. izd-vo med. lit-ry, 1954. 52 p. (MLRA 7:10)
(Squill)

IVANOV, S.L.; SOKOLOV, V.S.

"New fatty oilseed plants." N.I.Sharapov. Reviewed by S.L.Ivanov, V.S.Sokolov. Bot.zhur.41 no.6:908-909 Je '56. (MLRA 9:10)

1.Botanicheskiy institut imeni V.L.Komarova Akademii nauk SSSR, Leningrad.

(Oilseed plants) (Sharapov, N.I.)

IVANOV, S.L.; SHARAPOV, N.L.

New oilseed plants and possibilities for their introduction.
Trudy Bot.inst.Ser.6 no.7:111-114 '59. (MIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR (BIN), Leningrad.
(Plant introduction)

IVANOV, Sergey Leonidovich; PROKOF'YEV, A.A., prof., fiziolog i biokhimik [deceased]; PROKOF'YEV, A.A., prof., otv. red.; SHAROVATOVA, I.B., red. izd-va; ROMANOV, G.N., tekhn. red.

[Climatic theory of the formation of organic substances] Klimaticheskaia teoriia obrazovaniia organicheskikh veshchestv. Moskva, Izd-vo Akad. nauk SSSR, 1961. 86 p. (MIRA 14:11)
(Vegetation and climate)

IVANOV, Sl.; STEFANOVSKI, IU.

Additions to lubricating oils. Priroda Bulg 12 no. 5: 60-64 S-O '63.

L 62080-65 EPF(c)/EPR/EWP(j)/T/EWT(m) Pc-4/Pr-4/Pg-4 RM/WW

ACCESSION NR: AP5016844 UR/0204/65/005/003/0410/0416

547.568.1'128.5'122.1'143.1:542.978.541.324

AUTHORS: Shopov, D.; Ivanov, Sl. K. 27 B

TITLE: On the inhibiting action of barium dibenzyldithiophosphate and of its decomposition products

SOURCE: Neftekhimiya, v. 5, no. 3, 1965, 410-416

TOPIC TAGS: corrosion preventative, corrosion protection, oxidation inhibition, inhibitor, barium, barium organic compound/ DK 2 corrosion testing device

ABSTRACT: Thermal decomposition of dibenzyldithiophosphate and the antioxidation and anticorrosion action of its barium salt were studied at 140C under pure nitrogen. The procedure resulted in the formation of dibenzylsulfide, hydrogen sulfide, benzylmercaptan, and an inorganic residue. Anticorrosive properties of barium dibenzyldithiophosphate were studied in the 440-460C fraction of the Tyulenovskaya oil containing 2% of the salt. Its corrosive effect on a lead plate was measured in the DK-2 testing device. Antioxidation properties of this salt were investigated in the process of cumene hydrogen peroxide decomposition in vaseline by the procedure described by J. R. Thomas (J. Amer. Chem. Soc. 77, 246,

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1955). Kinetics of both processes are shown graphically. It was noted that oil containing 2% of the salt showed no corrosive action after 116 hours. It proved to be superior as a preventative to the barium cyclohexyldithiophosphate. Protective properties of both substances bore a direct relation to their thermal stability and to other decomposition products. High protective power of the barium salt was ascribed to its low thermal stability and to the formation of sulfur-containing decomposition products at 140C. It is shown analytically that barium dibenzyldithiophosphate and its decomposition product dibenzylsulfide decomposed cumene peroxide faster than hydrogen peroxide is decomposed thermally. The velocity constants of both barium salt and of its decomposition product were of the same order. Considering the synergism of the decomposition products, their

decomposed cumene peroxide faster than hydrogen peroxide is decomposed thermally. The velocity constants of both barium salt and of its decomposition product were of the same order. Considering the synergism of the decomposition products, their action may be stronger than that of the salt itself. Orig. art. has: 3 tables, 4 figures, and 13 formulas.

ASSOCIATION: Institut organicheskoy khimii Bolgarskoy AN, Sofiya (Institute of Organic Chemistry, Bulgarian Academy of Sciences)

SUBMITTED: 24Mar64 ENCL: 00 SUB CODE: OC, MM

NO REF SOV: 001 OTHER: 013

Card 2/2 hp

IVANOV, S.M., otvetstvennyy redaktor; RUDENKO, V.A., redaktor izdatel'stva; POLYAKOVA, T.V., tekhnicheskiy redaktor

[Condition and struggle of the laboring class in countries of Western Europe] Polozhenie i bor'ba rabochego klassa stran Zapadnoi Evropy. Moskva, 1957. 418 p. (MLRA 10:9)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdunarodnykh otnosheniy
(Europe, Western--Labor and laboring classes)

IVANOV, Sergey Mikhaylovich; TRANDAFILOVA, I.A., red.; BLAZHENKOVA, G.I., tekhn.red.

[Thrice a hero] Trizhdy geroi. Moskva, Izd-vo DOSAAF, 1958. 79 p. (MIRA 11:4)
(Kozhedub, Ivan Nikitich, 1920-)

IVANOV, S.M., starshiy master.

Replacing the posts of intermediate supports of operating lines. Energetik 1 no.7:19 D '53. (MLRA 6:12)
(Electric lines--Poles)

MIRONOV, Igor' Mironovich; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Locomotives of today and tomorrow]Lokomotivy nastoiashchego i budushchego. Moskva, Izd-vo "Znanie," 1963. 54 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.5)
(MIRA 16:2)

(Locomotives)

MERKULOV, Aleksandr Petrovich, kand. tekhn. nauk; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Tamed tornade]Ukroshchennyi smerch. Moskva, Izdvo "Znanie," 1963. 30 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.3) (MIRA 16:2)

(Vortex tube)

PUSHKIN, Veniamin Noyevich; ZGURSKIY, Vladimir Semenovich; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Man and automatic machine; psychology and technology] Chelovek i avtomat; psikhologiia i tekhnika. Moskva, Izd-vo "Znanie," 1963. 31 p. (Novoe v zhizni, nauke, tekhnike. IV Serlia: Tekhnika, no.6) (MIRA 16:2)
(Automatic control) (Human engineering)

KHANIN, I.M.; IVANOV, S.M.; KARTSYNEL', M.B.

Studying the flow distribution in hollow apparatus with different types of gas inlets. Dop.AN URSR no.3:316-320 '61. (MIRA 14:3)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut. Predstavleno akademikom AN USSR N.N.Dobrokhotovym.
(Gas flow)

KHANIN, I.M.; IVANOV, S.M.; KANTSYNEL', M.B.

Hydrodynamics of the reactor for the nonsaturation production of ammonium sulfate. Koks i khim. no.7:37-42 Jl '61. (MIRA 14:9)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.
(Ammonium sulfate)

DELYUKIN, Leonid Nikolayevich; IVANOV, S.M., red.; NAZAROVA, A.S., tekhn. red.

[Mechanisms and automatic machines for assembly lines] Mekhanizmy i avtomaty - sborshchiki. Moskva, Izd-vo "Znanie," 1963. 23 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no. 8) (MIRA 16:6)
(Assembly-line methods) (Automation)

KOLPAKOV, Aleksandr Lavrent'yevich; LOSEV, Vladimir Borisovich; IVANOV, S.M., red.; ATROSHCHENKO, L.Ye., tekhn. red.

[Bountiful chemistry of organosilicon compounds]Shchedraia kremniiorganika. Moskva, Izd-vo "Znanie," 1962. 37 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.21) (MIRA 15:11)

(Silicon organic compounds)

BERKOVICH, David Mikhaylovich, kand. tekhn. nauk; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Machines control machines]Mashiny upravliaiut mashinami. Moskva, Izd-vo "Znanie," 1962. 45 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.19) (MIRA 15:11)
(Automation) (Cybernetics)

RUDOY, Boris L'vovich; IVANOV, S.M., red.; NAZAROVA, A.S., tekhn. red.

[New life for glass]Novaia zhizn' stekla. Moskva, Izd-vo "Znanie," 1963. 46 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.2) (MIRA 16:1)
(Glass fibers)

KLYUCHNIKOV, Sergey Ivanovich, kand. tekhn. nauk; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Die and cutting tools]Shtamp i rezets. Moskva, Izd-vo "Znanie," 1963. 31 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.4) (MIRA 16:2)
(Dies (Metalworking)) (Metal-cutting tools)

KLYACHKO, Andrey Borisovich; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Automation of precision] Avtomatika tochnosti. Moskva, Izd-vo "Znanie," 1963. 47 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.12) (MIRA 16:8)
(Automation)

GUTOVSKIY, Vladimir Nikolayevich; MOSKATOV, Karl Arnol'dovich, kand.tekhn.nauk; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Allies and rivals of metals] Soiuzniki i soperniki metallov. Moskva, Izd-vo "Znanie," 1963. 46 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.10) (MIRA 16:7)
(Metals, Substitutes for)

GIL'BERG, Lev Abramovich; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[On an air cushion] Na vozdushnoi podushke. Moskva, Izd-vo "Znanie," 1963. 35 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.13) (MIRA 16:8)
(Ground-effect machines)

GEYMAN, Leonid Mikhaylovich; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Road to horizon 723] Put' na gorizont 723. Moskva, Izd-vo "Znanie," 1963. 39 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.15) (MIRA 16:8)
(Strip mining)

SYROMYATNIKOV, Ivan Arkad'yevich, doktor tekhn. nauk, prof.; IVANOV, S.M., red.; NAZAROVA, A.S., tekhn. red.

[Electrification is well on its way; power transmission lines] Elektrichestvo v puti; linii elektroperedachi. Moskva, Izd-vo "Znanie," 1963. 47 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.1) (MIRA 16:1)
(Electrification) (Electric lines—Overhead)

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TROSHIN, Denis Mikhaylovich, doktor fil. nauk, prof.; IVANOV, S.M., red.; NAZAROVA, A.S., tekhn. red.

[The power of science; transformation of science into a directly productive force] Sila nauki; o prevrashchenii nauki v neposredstvennuiu proizvoditel'nuiu silu. Moskva, Izd-vo "Znanie," 1963. 47 p. (Novoe v zhizni, nauke, tekhnike. X Seriia: Molodezhnaia, no.2) (MIRA 16:1)
(Communism and science)

MUSLIN, Yevgeniy Salimovich; IVANOV, S.M., red.; NAZAROVA, A.S., tekhn. red.

[Freight transported by pipes] Gruzy idut po trubam. Moskva, Izd-vo "Znanie," 1963. 31 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.14) (MIRA 16:8)
(Pipelines)

MEDOVAR, Boris Izrailevich, doktor tekhn.nauk; LATASH, Yuriy Vladimovich, kand. tekhn. nauk; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[The rebirth of steel] Stal' rozhdaetsia vnov'. Moskva, Izd-vo "Znanie," 1963. 39 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.16) (MIRA 16:9)
(Steel--Electrometallurgy) (Zone melting)

ZUBKOV, Boris Vasil'yevich; IVANOV, S.M., red.; RAKITIN, I.T., tekhn. red.

[Universal and specialized machines; descriptions of the recent developments in agricultural machinery] Mashiny - universaly i spetsialisty; rasskazy o novinkakh sel'skokhoziaistvennoi tekhniki. Moskva, Izd-vo "Znanie," 1963. 31 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika no.18) (MIRA 16:10)

(Agricultural machinery)

LOMANOVICH, Viktor Aleksandrovich; IVANOV, S.M., red.

[Chemical electronics] Khimotronika. Moskva, Znanie, 1965. 31 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.22) (MIRA 18:10)

IVANOV, S.M.

"Physical education of pre-school and younger school children."
E.G. Levi-Gorinevskaia. Reviewed by S.M.Ivanov. Pediatriia no.4:
84-85 Jl-Ag '55. (MLRA 8:12)
(CHILDREN--CARE AND HYGIENE) (PHYSICAL EDUCATION FOR CHILDREN)
(LEVI-GORINEVSKAIA, E.G.)

IVANOV, S.M., dotsent.

Excercise schedule in pediatric hospitals. Pediatriia, no.5:60-63 S-O '55. (MLRA 9:2)

1. Iz gospital'noy pediatricheskoy kliniki pediatricheskogo fakul'teta (dir. prof. K.F. Popov) i kafedry fizicheskogo vospitaniya i vrachebnoy fizicheskoy kul'tury (zav.-dotsent S.M. Ivanov) II Moskovskogo meditsinskogo instituta imeni I.V. Stalina (dir.-dotsent S.I. Milovidov)

(PHYSICAL THERAPY,
regimen in pediatric hospitals)
(HOSPITALS
pediatric, physical ther. for convalescent child)

MINKEVICH, Mariya Anatol'yevna; IVANOV, S.M., redaktor; BUL'DYAYEV, N.A., tekhnicheskiy redaktor

[Medical supervision over physical training in schools; brief instructions on organization and methods] Vrachebnyi kontrol' za fizicheskim vospitaniem v shkole; kratkie organizatsionno-metodicheskie ukazaniia. Moskva, Gos.izd-vo med. lit-ry, 1957. 71 p. (MLRA 10:10)

(SCHOOL HYGIENE) (PHYSICAL EDUCATION AND TRAINING)

IVANOV, S.M., dotsent

Physical culture problems in the system of the protection of the health of children and adolescents. Pediatriia no.5:84-89 My '57. (MIRA 10:10)
(PHYSICAL EDUCATION FOR CHILDREN)

IVANOV, S.M., dotsent

Teaching medical supervision and exercise therapy at the universities. Pediatriia 37 no.6:19-22 Je '59. (MIRA 12:9)

1. Iz II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.
(PEDIATRICS, education,
in Russia (Rus))

IVANOV, S.M.

Exercise therapy in chronic penumonias in children. Vop.okh. mat.i det. 5 no.4:32-37 Jl-Ag '60. (MIRA 13:7)

1. Iz kafedry fizicheskogo vospitaniya i vrachebnoy fizkul'tury (zav. - dotsent S.M. Ivanov) II Moskovskogo meditsinskogo instituta im. N.I. Pirogova (dir. - dotsent M.G. Sirotkina).
(EXERCISE THERAPY) (PNEUMONIA)

IVANOV, S.M., dots.

Exercise therapy for diseases of the respiratory organs in childhood. Med. sestra 19 no.5:22-28 My '60. (MIRA 13:9)

1. Zaveduyushchiy kafedroy fizicheskogo vospitaniya i vrachebnoy fizkul'tury II Moskovskogo meditsinskogo instituta imeni N.I.Pirogova.
(EXERCISE THERAPY) (RESPIRATORY ORGANS--DISEASES)

IVANOV, S.M.

Exercise therapy for bronchial asthma in children. Pediatriia 38 no. 7:85-90 Jl '60. (MIRA 14:1)
(ASTHMA) (EXERCISE THERAPY)

IVANOV, S. M., Dr. Medic. Sci. (diss) "Therapeutic Physical Culture for Chronic Non-specific Illnesses of Respiratory Organs in Children," Moscow, 1961, 19 pp. (Central Inst. Improvem. Trng of Doctors) (KL Supp 12-61, 282).

IVANOV, Sergey Mikhaylovich, kand. med. nauk; LAGUTINA, Ye.V., red.; KUZ'MINA, N.S., tekhn. red.

[Exercise therapy for children with bronchial asthma] Lechebnaia gimnastika dlia detei, bol'nykh bronkhial'noi astmoi. Moskva, Medgiz, 1961. 33 p. (MIRA 14:12)
(EXERCISE THERAPY) (ASTHMA)

CHOGOVADZE, Afanasiy Varlamovich; IVANOV, S.M., red.; POGOSKINA, M.V., tekhn. red.

[Physical training as a method for the prevention and treatment of platypodia in school children] Fizicheskaia kul'tura kak metod profilaktiki i lecheniia ploskostopiia u shkol'nikov. Moskva, Medgiz, 1962. 111 p. (MIRA 15:3)
(PHYSICAL EDUCATION AND TRAINING)
(FOOT--ABNORMITIES AND DEFORMITIES)

IVANOV, S.M.

The influence of single gymnastic exercises on healthy and sick children.

Report submitted to the Czech. Medical Congress, Medical Society of J.E, Purkyne, Prague, Czech. 12-17 Nov 1962

IVANOV, Sergey Mikhaylovich, prof.; Prinimali uchastiye: LEPORSKIY, A.A.[deceased]; SOKOLOV, A.A.; MANIKOV, M.Ye., red.; ROMANOVA, Z.A., tekhn. red.

[Medical control and exercise therapy] Vrachebnyi kontrol' i lechebnaia fizkul'tura. Izd.2., ispr. i dop. Moskva, Meditsina, 1964. 429 p. (MIRA 17:2)

SORIN, Yakov Mikhaylovich; LEBEDEV, Andrey Vasil'yevich; KONOVALOV, G.M., red.; IVANOV, S.M., red.

[Talks on reliability] Besedy o nadezhnosti. Moskva, Izd-vo "Znanie," 1964. 222 p. (MIRA 17:6)

PUSHKIN, Veniamin Noyevich; IVANOV, S.M., ed.

[Heuristic and cybernetics] Evristika i kibernetika. Moskva, Znanie, 1965. 47 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.6) (MIRA 18:4)

MALEVANCHIK, Boris Semenovich; IVANOV, S.M., red.

[The road across the dam] Doroga skvoz' plotinu. Moskva, Znanie, 1965. 46 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.7) (MIRA 18:4)

GALONEN, Yuriy Mikhaylovich, kand. tekhn. nauk; IVANOV, S.M., red.

[Trains over the city; monorail railways] Poezda nad gorodom; monorel'sovye dorogi. Moskva, Izd-vo "Znanie," 1965. 31 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.8) (MIRA 18:4)

SOFRONOV, Yevgeniy Valerianovich; IVANOV, S.M., red.

[Equipment of an airplane] Oborudovanie samoleta. Moskva, Znanie, 1965. 47 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.9) (MIRA 18:4)

IVANOV, S.M.; RYBIN, V.A., prof., red.; PANIN, V.Ya., red.

[Causes of the desiccation of stone fruit trees] Prichiny usykhaniia derev'ev kostochkovykh plodovykh porod. Kishinev, Shtiintsa, 1961. 224 p. (MIRA 18:5)

LIPMAN, Grigoriy Semenovich; TURGENEV, Gennadiy Mikhaylovich; IVANOV, S.M., red.

[Snow vehicles] Snegokhody. Moskva, Izd-vo "Znanie," 1965. 25 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.10) (MIRA 18:5)

GOL'DANSKIY, V.I.; KITAYGORODSKIY, I.I., prof.; KOST, A.N., prof.; LEVICH, V.G.; ORMONT, B.F., prof.; RAZUVAYEV, G.A.; TAL'ROZE, V.L., prof.; CHERNOV, A.G.; IVANOV, S.M., red.

[Chemistry on new frontiers] Khimiia na novykh rubezhakh. Moskva, Izd-vo "Znanie," 1965. 46 p. (Novoe v zhizni, nauke, tekhnike. XI Seriia: Khimiia, no.2) (MIRA 18:4)

1. Chlen-korrespondent AN SSSR (for Gol'danskiy, Levich, Razuvayev).

PETROS'YANTS, A.M.; DOLLEZHAL', N.A., akademik; KHLOPKIN, N.S., kand. tekhn. nauk; CHERNOV, A.G.; IVANOV, S.M., red.

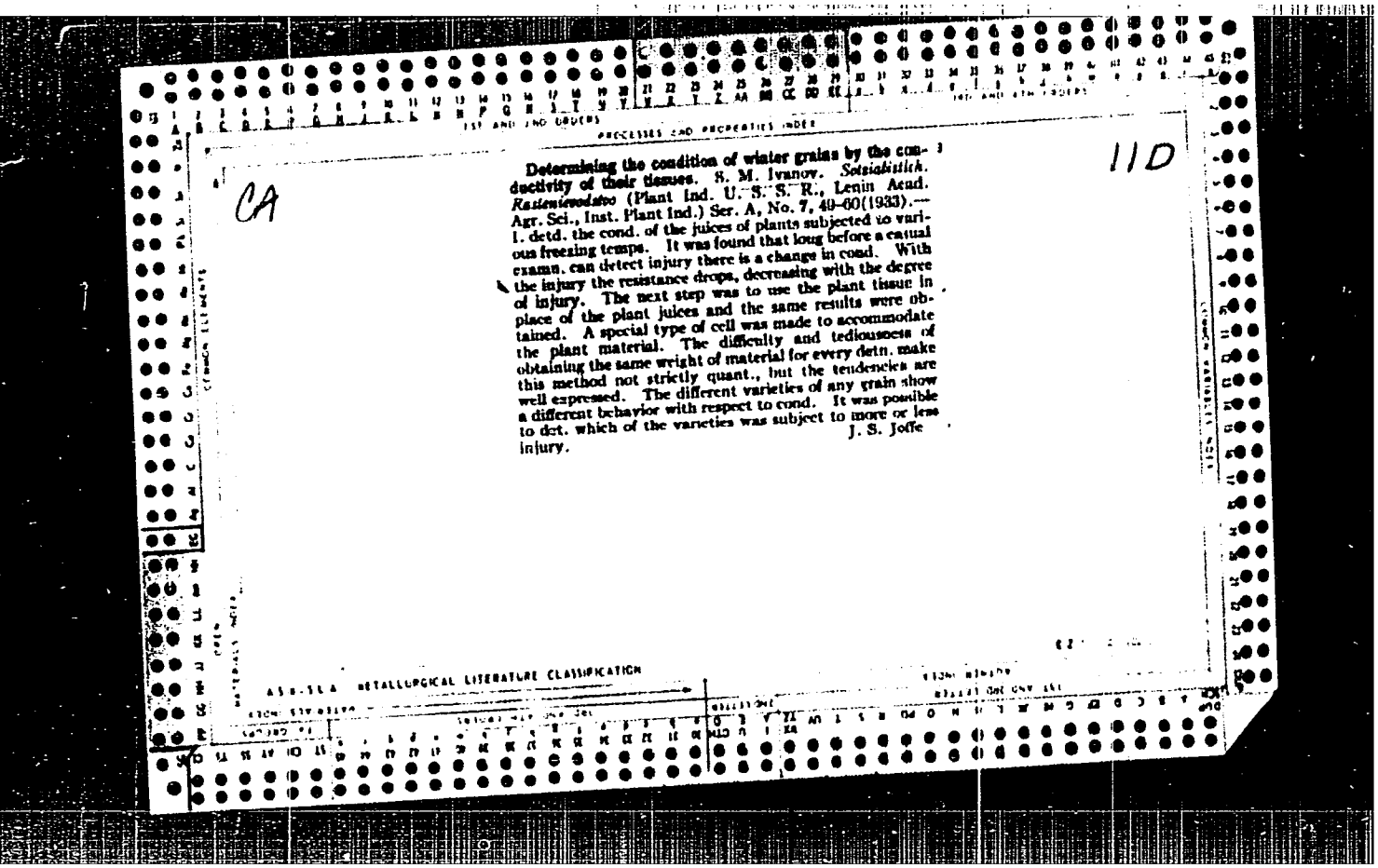
[Present-day atomic engineering. Tenth discussion] Atomnaia energetika nashikh dnei. Beseda desiataia. Moskva, Izd-vo "Znanie," 1965. 29 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.3) (MIRA 18:4)

1. Predsedatel' Gosudarstvennogo komiteta po ispol'zovaniyu atomnoy energii SSSR (for Petros'yants).

BESPAL'KO, I.G., red.; GUSEV, V.F.; YEVDOKIMOV, P.D., prof., red.; IVANOV, S.M., red.; NIKULIN, V.N., red.; SICHIOKNO, G.A., red.; SIPTSOV, A.S., red.

[Transactions of the scientific conference on production] Trudy nauchno-proizvodstvennoi konferentsii. Pskov, 1962. 341 p. (MIRA 18:2)

1. Leningrad. Nauchno-issledovatel'skiy veterinarnyy institut. 2. Nachal'nik veterinarnogo otdela Pskovskogo oblastnogo upravleniya proizvodstva i zagotovok sel'skokhozyaystvennykh produktov i Leningradskiy Nauchno-issledovatel'skiy veterinarnyy institut (for Nikulin). 3. Leningradskiy veterinarnyy institut (for Yevdokimov).

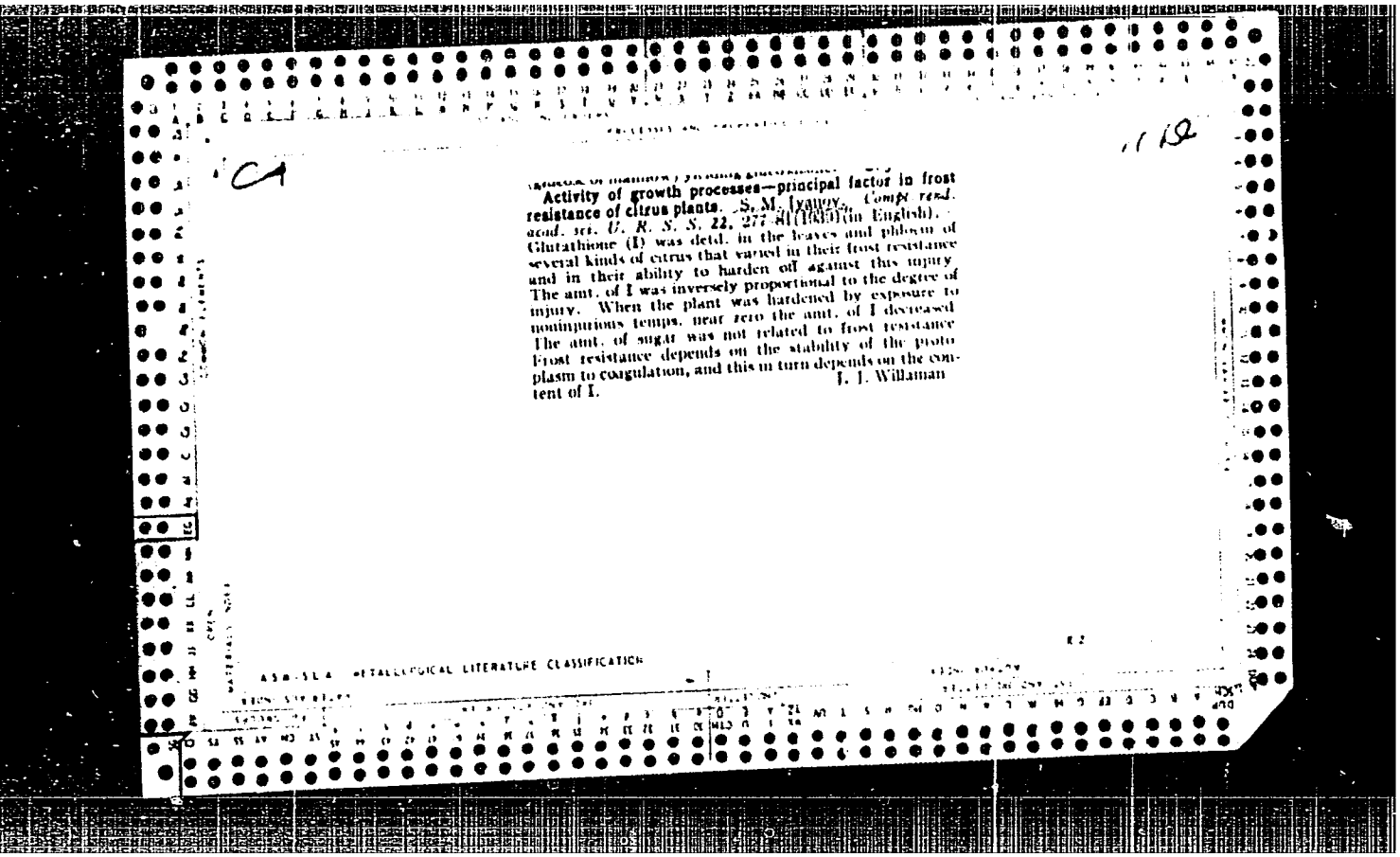


CA

Determining the condition of winter grains by the conductivity of their tissues. S. M. Ivanov. *Sotsialistich. Rastenievodstvo* (Plant Ind. U. S. S. R., Lenin Acad. Agr. Sci., Inst. Plant Ind.) Ser. A, No. 7, 49–60(1933).— I. detd. the cond. of the juices of plants subjected to various freezing temps. It was found that long before a actual examn. can detect injury there is a change in cond. With the injury the resistance drops, decreasing with the degree of injury. The next step was to use the plant tissue in place of the plant juices and the same results were obtained. A special type of cell was made to accommodate the plant material. The difficulty and tediousness of obtaining the same weight of material for every detn. make this method not strictly quant., but the tendencies are well expressed. The different varieties of any grain show a different behavior with respect to cond. It was possible to det. which of the varieties was subject to more or less injury.

J. S. Joffe

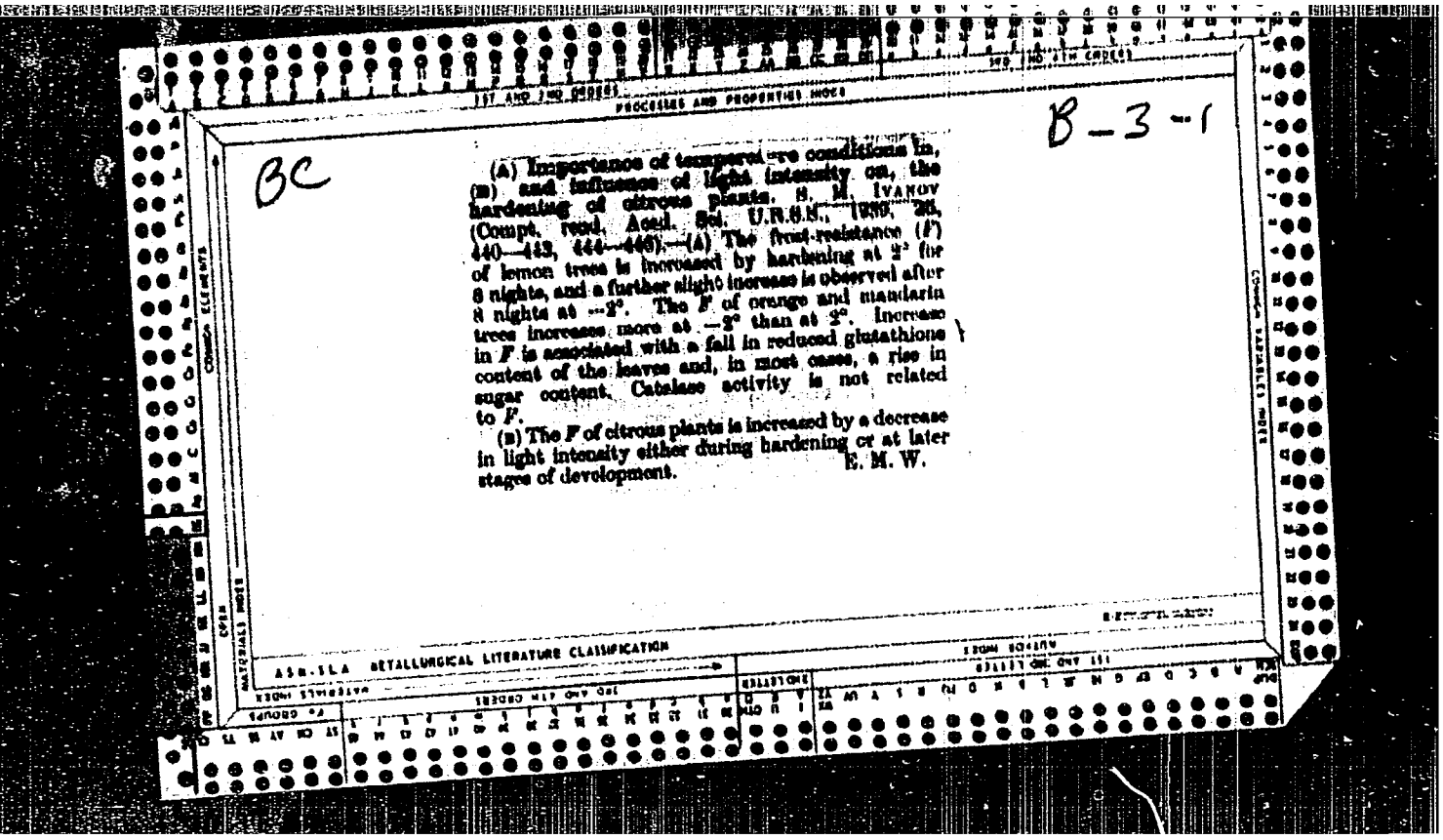
11D



Activity of growth processes—principal factor in frost resistance of citrus plants. S. M. Ivanov. *Compt. rend. acad. sci. U. R. S. S.* **22**, 277–81 (1939) (in English).—Glutathione (I) was detd. in the leaves and phloem of several kinds of citrus that varied in their frost resistance and in their ability to harden off against this injury. The amt. of I was inversely proportional to the degree of injury. When the plant was hardened by exposure to noninjurious temps. near zero the amt. of I decreased. The amt. of sugar was not related to frost resistance. Frost resistance depends on the stability of the protoplasm to coagulation, and this in turn depends on the content of I.

J. J. Willaman

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

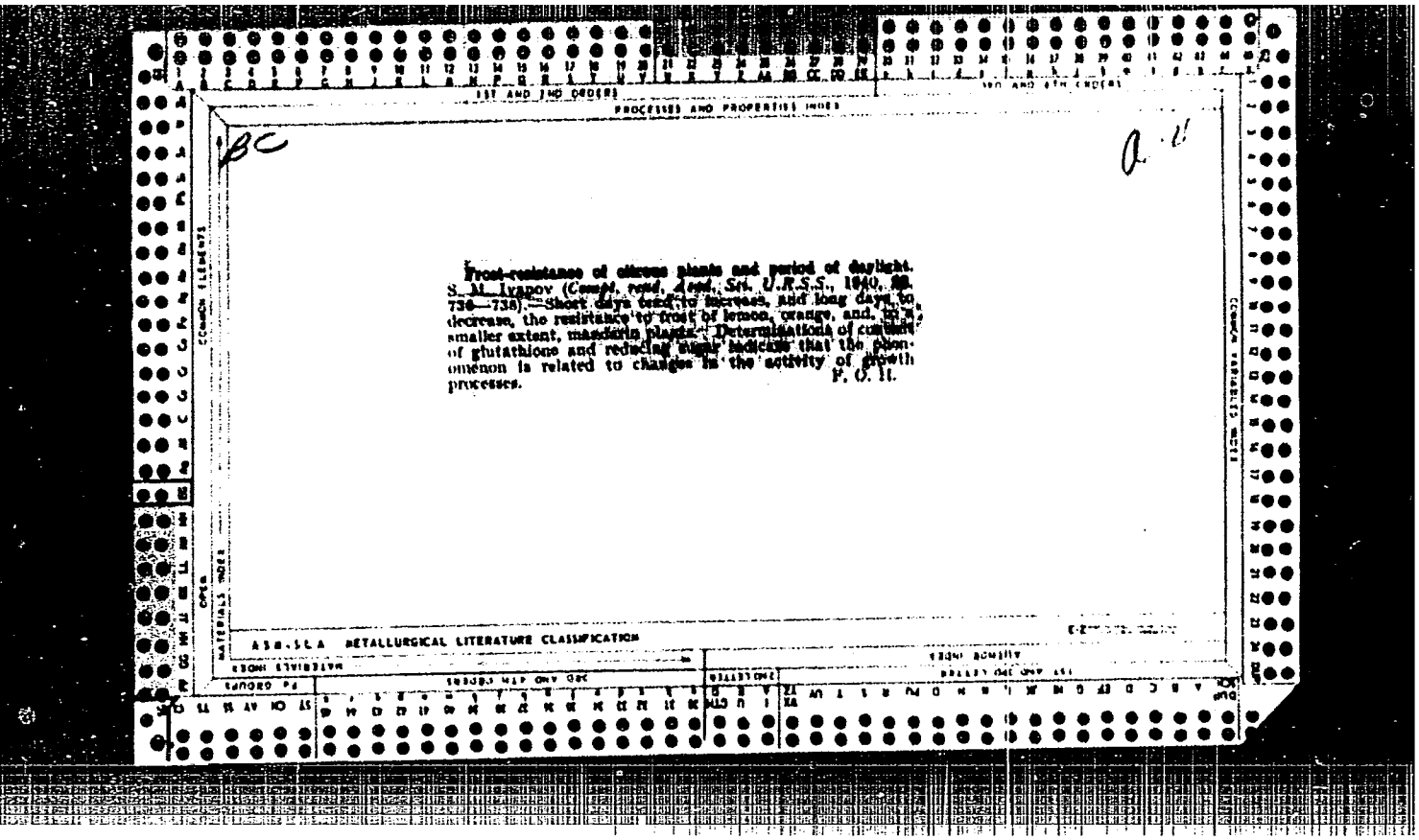


BC

B-3-1

(A) Importance of temperature conditions in, (B) and influence of light intensity on, the hardening of citrous plants. S. M. IVANOV (Compt. rend. Acad. Sci. U.R.S.S., 1939, 23, 440—443, 444—446).—(A) The frost-resistance (*F*) of lemon trees is increased by hardening at 2° for 8 nights, and a further slight increase is observed after 8 nights at —2°. The *F* of orange and mandarin trees increases more at —2° than at 2°. Increase in *F* is associated with a fall in reduced glutathione content of the leaves and, in most cases, a rise in sugar content. Catalase activity is not related to *F*.

(B) The *F* of citrous plants is increased by a decrease in light intensity either during hardening or at later stages of development. E. M. W.



Frost-resistance of citrous plants and period of daylight. S. M. Ivanov (*Compt. rend. Acad. Sci. U.R.S.S.*, 1940, 28, 736—738).—Short days tend to increase, and long days to decrease, the resistance to frost of lemon, orange, and, to a smaller extent, mandarin plants. Determinations of content of glutathione and reducing sugar indicate that the phenomenon is related to changes in the activity of growth processes. P. O. H.

IVANOV, S.M.

Causes of non-parasitic root rot of Pelargonium roseum. Doklady Vsesoyuz. Akad. Sel'skokhoz. Nauk im. V.I.Lenina 18, No.5, 33-7 '53. (MLRA 6:5)
(CA 47 no.22:12531 '53)

1. IVANOV, S. M.

2. USSR 600

4. Perennials

7. Interaction of leaves and roots in perennial plants, Dokl. AN SSSR, 88, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

USSR/Cultivated Plants - Fruits. Berries. M-6

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91828

Author : Ivanov, S.M.
Inst :
Title : Internal Causes of Non-Parasitic Necrosis of Young Lignin in Plum Trees.

Orig Pub : Izv. Mold. fil. AN SSSR, 1957, No 6, (39), 57-75.

Abstract : Increased withering of young plum trees in the irrigated orchards of the Southern Dnestr River Region, induced the author to investigate the causes of this phenomenon in 1953-1955. A sudden appearance of necrosis of young lignin in plum trees is produced by functional and not parasitic causes. The disturbance of carbohydrate and nitrogen metabolism and the poisoning of the living lignin cells with ammonia were principally involved. This is connected with vegetable crops growing in the spaces between the rows and the use of irrigation and fertilizers

Card 1/2

USSR/Cultivated Plants. Fruit Trees. Small Fruit Plants. M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77824.

Author : Ivanov, S.M.
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Title : Functional Disease of Young Apple Tree Sets in Nurseries.

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Abstract: For resolution of the problem concerning the prevention of disease of apple tree sets by fusariosis or "tochechnaya" disease and development of the nature of the functional disorder which causes this disease, in 1953/1955 experiments were carried out in the nurseries of the M. V. Frunz sovkhoz of the Tiraspol'skiy rayon

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and examinations were conducted of the conditions of sets of 21 varieties. It is confirmed that the disease of the rootstocks by fusariosis is the result of the functional disorder which leads to the general weakening of the plants, including damaging of the grafts by autumn-winter temperatures. These functional disorders are conditioned by insufficient compatibility of the grafts and rootstock and by conditions of growth which contribute to the impairment of the viability of the root system. A sharp change of the oxidization-renewal cycle of the leaves, respiration power and impairment of the carbohydrate metabolism which leads to a delay of the flow of the sugars from the leaves to the roots are indicators of functional

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Kilns, Furnaces, Fuels, and Combustion

Experiment in working a periodic kiln with blast under the fire bars. S. M. IVANOV. *Ogneupory*, 1940, No. 5-6, pp. 305–12.—The firing of grog products was accelerated by using a blast under the fire bars of a semi-gas furnace. The firing time was shortened to 60 hr., while the consumption of fuel was cut to 17 or 18% of the original figure without lowering the quality of the products. M.V.C.

Fuel-cost chart. W. F. SCHAPHORST. *Chem. Industries*, 51 [3] 381 (1942).—Two nomograms give (1) the relationship between cost of oil per gallon, specific gravity of oil, B.t.u.'s per pound of oil, boiler efficiency with oil, and B.t.u.'s produced for 1 cent's worth of oil and (2) the relation between cost of coal per ton, boiler efficiency with coal, B.t.u.'s per pound of coal, and B.t.u.'s produced for 1 cent's worth of coal. It is thus possible to calculate whether oil or coal will be cheaper. E.D.M.