SOV/124-57-8-8601

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 8, p 7 (USSR)

AUTHOR: Aleksandrov, V. F.

TITLE: Gravitational Motion of a Parallelepiped Freely Supported by an Axis (Dvizheniye parallelepipeda, svobodno lezhashchego na osi, pod deystviyem sily tyazhesti)

PERIODICAL: Tr. Leningr. tekhnol. in-ta, 1956, Nr 4, pp 272-274

ABSTRACT: Bibliographic entry

Card 1/1

ALEKSANDROV, Valentin Filippovich; USATOV, Nikolay Vasil'yevich; ROSSADKIN, I.D., redaktor; VINOKUROVA, Ye.B., redaktor izdatel'stva; KONYASHINA, A.D., tekhnicheskiy redaktor

[Fire prevention in planning and conducting construction operations in rural localities] Protivopozharnye meropriiatiia pri proektirovanii i proizvodstve stroitel'nykh rabot v sel'skoi mestnosti. Moskva, Izd-vo M-va kommun.khoz. RSFSR, 1957. 158 p. (MLRA 10:8)
(Fire prevention)

ALEKSANDROV, V.F., kand.tekhn.nauk

Circulation method for heating bitumen. Izv. vys. ucheb. zav.; energ. 5 no.3:97-98 Mr '62. (MIRA 15:4)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti.

(Bitumen)

ALEKSANDROV, V.F., kand.tekhn.nauk

Engineering method for calculating the unsteady motion of the high-pressure hydraulic mechanism of a piston. Trudy LTITSBP no.8:193-199 '61. (MIRA 16:9)

(Pistons)

ALEKSANDROV, V.F., kand. tekhn. nauk

Graphic method for the calculation and study of the stability of the piston motion in a high-pressure hydraulic system. Trudy LTITSBP no.10:183-191 '62. (MIRA 16:8)

(Hydraulic presses)

ALEKSANDROV, V.F.

Graphical method for studying the stability of the movement in mixed friction taking two or more degrees of freedom into account. Trudy LTITSBP no.14:79-84 '64. (MIRA 18:5)

SOV/112-59-2-2493

8(6)

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, p 32 (USSR)

AUTHOR: Aleksandrov, V. G.

TITLE: Water-Level Variations in a Self-Circulation Boiler Drum (Kolebaniya urovnya vody v barabane kotla s yestestvennoy tsirkulyatsiyey)

PERIODICAL: Sb. Leningr. in-ta inzh. zh.-d. transp., 1957, Nr 154, pp 3-11

ABSTRACT: The nature of water-level variations in a two-drum, 450-m^2, 22-atm gauge, 375°C boiler was experimentally determined by suddenly throwing the turbine load on and off. The momentary "swelling" of the water level in the drum accompanied by an abrupt pressure drop was demonstrated. Rate of water-level change approaches that of steam pressure. As the pressure was lowered from 74 to 66 atm, the maximum water level in the drum was attained in about 30 seconds. Variation in furnace conditions does not affect the water level quickly because of inertia of furnace devices. A fully-automatic boiler showed maximum fuel feed 60 sec after the beginning of steam-pressure

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Water-Level Variations in a Self-Circulation Boiler Drum

change. The automatic feed equipment also responded with a delay due to lost motions in reducers, servomotors, etc. To prevent steam-quality deterioration, lowering of its temperature, etc., sharp variations in steam consumption should not be permitted during rapid water-level lifts.

A.B.M.

DOLGIN, I.M., kand.geograf.nauk; NIKOLAYEVA, T.V., mladshiy nauchnyy sotrudnik; BASOVA, L.G., mladshiy nauchnyy sotrudnik; VORONTSOVA, L.I., mladshiy nauchnyy sotrudnik; DANILOVA, V.M., mladshiy nauchnyy sotrudnik; KOVROVA, A.M., mladshiy nauchnyy sotrudnik; SERGEYEVA, G.G., mladshiy nauchnyy sotrudnik; SMIRNOVA, V.N., mladshiy nauchnyy sotrudnik; KHARITONOVA, L.I., mladshiy nauchnyy sotrudnik; ALEKSANDROV, V.F., aerolog; KUZNETSOV, O.M., aerolog; MAYOROVA, L.A., aerolog; POSTNIKOVA, D.G., aerolog; SMIRNOVA, I.P., aerolog; VASIL'YEVA, R.P., tekhnik; MEDNIS, L.V., tekhnik; KHARITONOVA, V.A., tekhnik; KHRUSTALEVA, N.K., red.; DROZHZHINA, L.P., tekhn.red

[Aerological observations of Arctic stations during the period from June 30 through December 31, 1957] Aerologicheskie nabliudeniia poliarnykh stantsii s 30 iiunia po 31 dekabria 1957 g. Leningrad, Izd-vo "Morskoi transport," 1961. 994 p. (Arkticheskii i antarkticheskii nauchno-issledovatel'skii institut Trudy, vol.243)
(MIRA 14:11)

(Arctic regions—Meteorology—Observations)

SOV/86-58-9-30/42

AUTHOR: Aleksandrov, V. G., Maj Gen of Engineering and Technical Service

TITLE: Urgent Problems in the Technical Training of Flight Personnel (Nazrevshiye voprosy tekhnicheskoy podgotovki letnogo sostava)

PERIODICAL: Vestnik vozdushnogo flota, 1958, Nr 9, pp 70-72 (USSR)

ABSTRACT: The article deals with the problem of improving the technical training of flight personnel. Having drawn attention to many shortcomings in the technical training of flight personnel, the author describes how to organize such training. In his opinion, the best form of such training are seminars held on technical subjects. On certain days two hours are assigned to lectures and two to four hours to seminars. The lectures deal, as a rule, with the newest problems of technique, aerodynamics, aerial gunnery, communications, etc. At the seminars the

Card 1/2

problems assigned to a given day are discussed thoroughly. Much attention is also paid to practice in the aircraft cabins. The reading of lectures and holding of seminars rests with the commanders, their deputies, engineers, and those officers best prepared for such tasks.

Card 2/2

ALEKSANDROV, V.G., kand.tekhn.nauk

Temperature control for superheated steam. Sbor. LIIZHT no.168:263-269 '60. (MIRA 13:10)
(Temperature regulators) (Steam, Superheated)

ALEKSANDROV, Viktor Grigor'yevich; POLYAKOV, K.S., red.; SOBOLEVA, Ye.M., tekhn. red.

[Problems concerning the design of boilers with medium and small evaporative capacities] Voprosy proektirovaniia parovykh kotlov srednei i maloi proizvoditel'nosti. Moskva, Gos. energ. izd-vo, 1960. 232 p. (MIRA 14:5)
(Boilers)

ALEKSANDROV, V.G., inzh.

Placing boat system rope lines. Sudostroenie 26 no. 11:63-65 N '60. (MIRA 14:1)
(Davits)

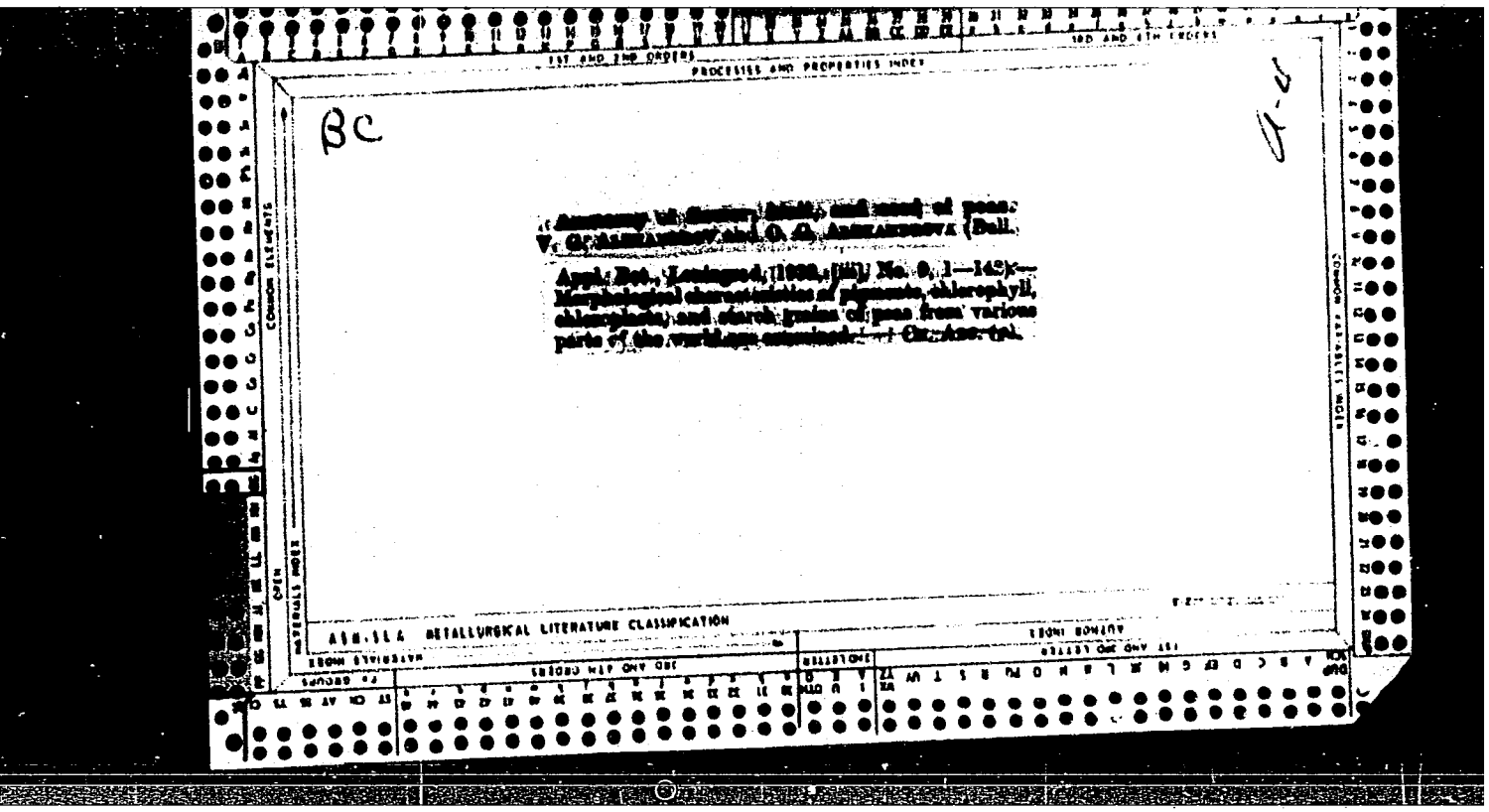
ALEKSANDROV, V.G., inzh.

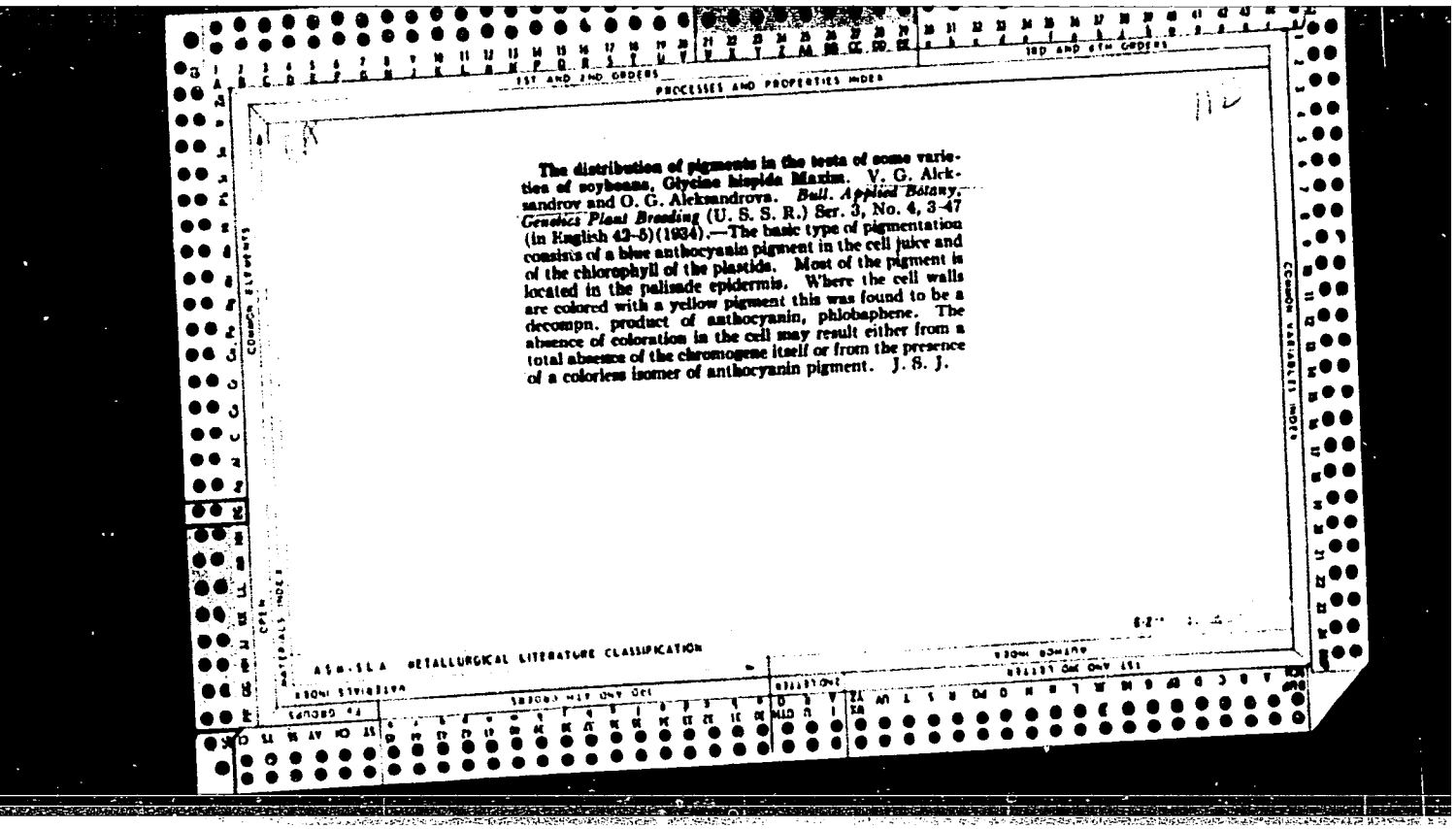
Design of towing arches and the position on ships. Sudostroenie 30 no.1:13-15 Ja '64. (MIRA 17:3)

ALEKSANDROV, V.G.

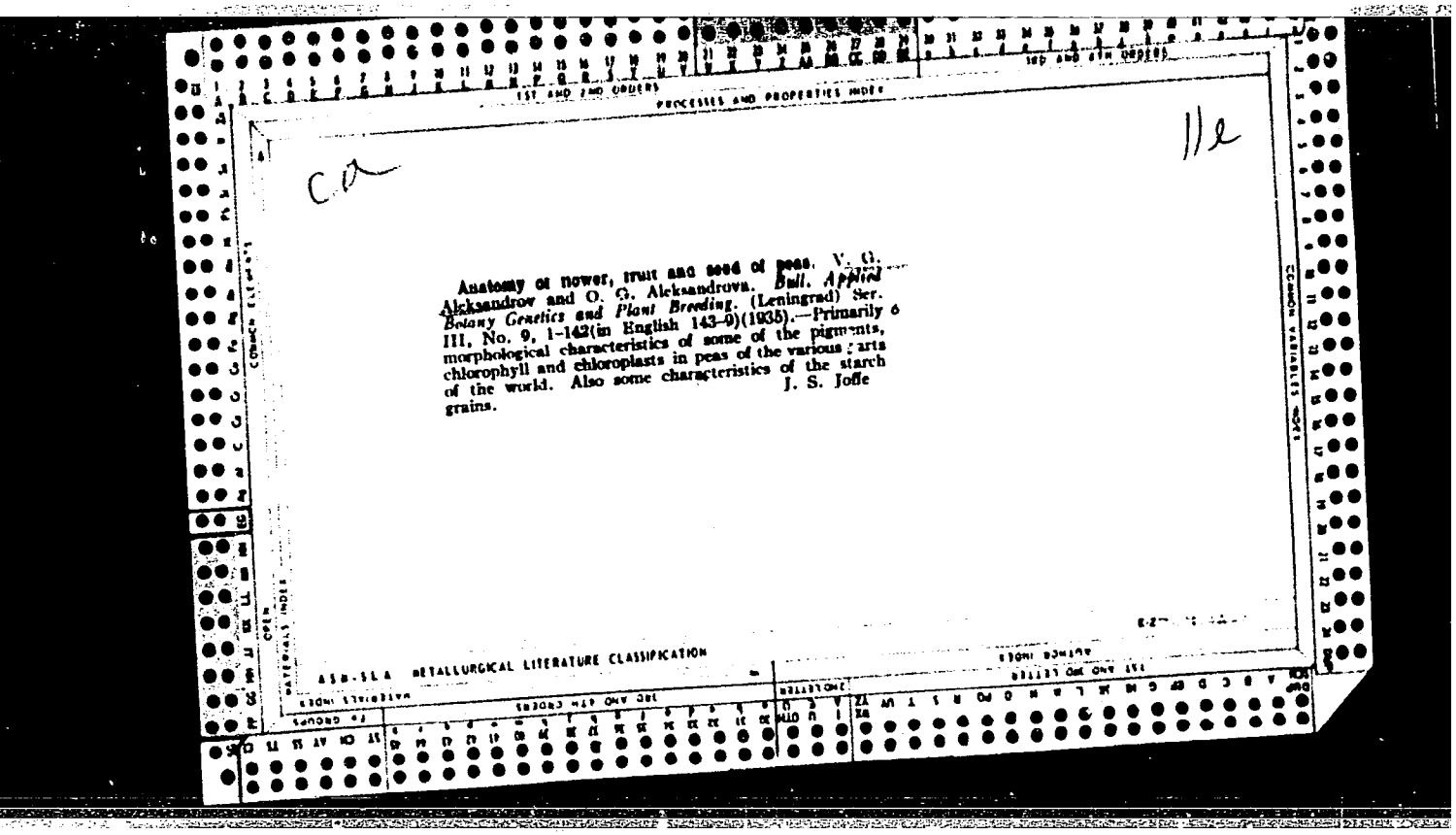
Methodology of accommodometry in pediatric neurological clinic. Zhur. nevr. i psikh. 64 no.7:1016-1020 '64. (MIRA 17:12)

1. Klinika nervnykh bolezney detskogo vozrasta (zaveduyushchiy - prof. D.S. Futer) II Moskovskogo meditsinskogo instituta im. N.I. Pirogova.



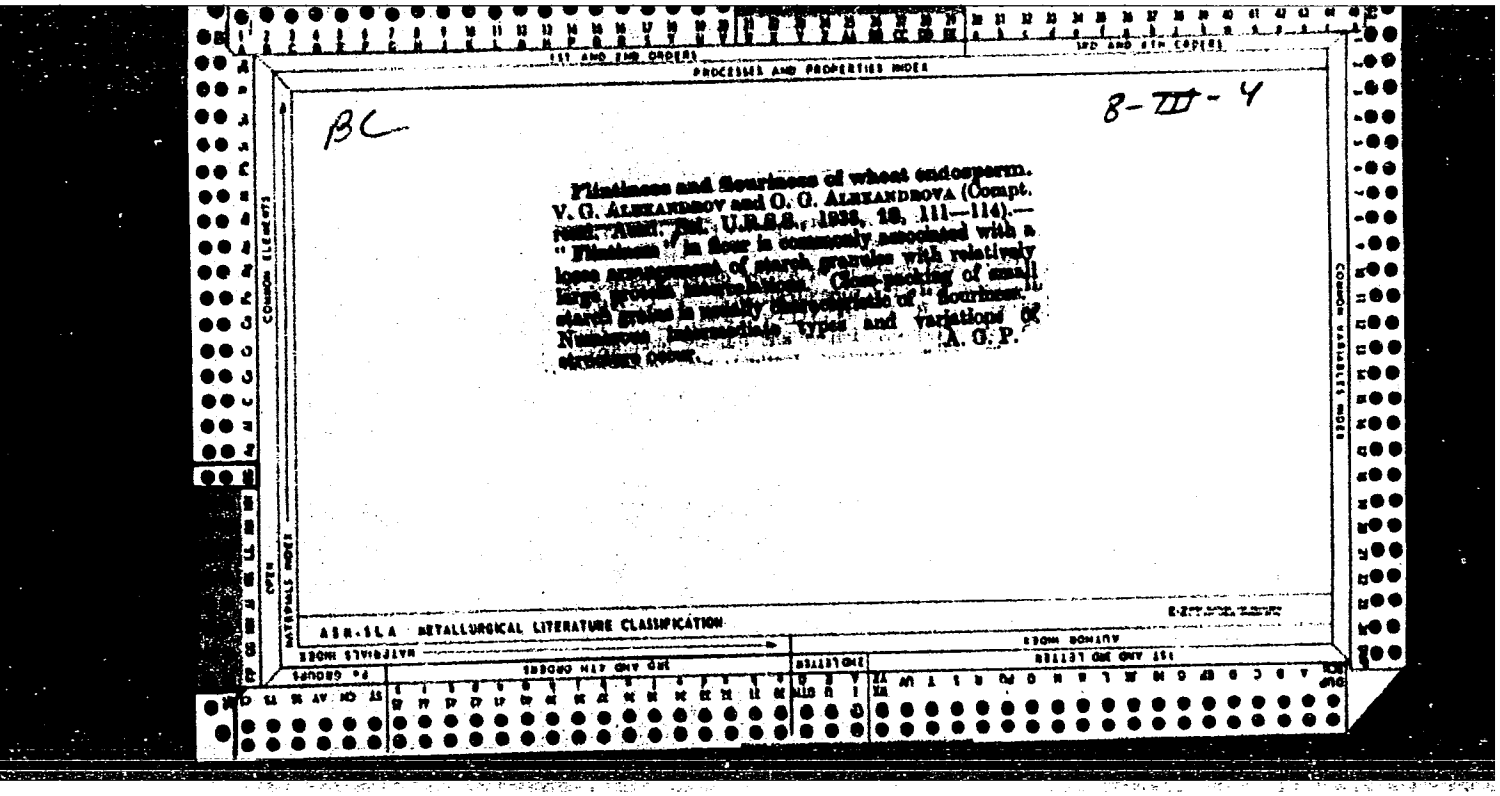


The distribution of pigments in the testa of some varieties of soybeans, Glycine hispida Maxim. V. G. Alcksandrov and O. G. Alcksandrova. *Bull. Applied Botany, Genetics Plant Breeding* (U. S. S. R.) Ser. 3, No. 4, 3-47 (in English 42-5)(1934).—The basic type of pigmentation consists of a blue anthocyanin pigment in the cell juice and of the chlorophyll of the plastids. Most of the pigment is located in the palisade epidermis. Where the cell walls are colored with a yellow pigment this was found to be a decompn. product of anthocyanin, phlobaphene. The absence of coloration in the cell may result either from a total absence of the chromogene itself or from the presence of a colorless isomer of anthocyanin pigment. J. S. J.



Anatomy of flower, fruit and seed of peas. V. G. Aleksandrov and O. G. Aleksandrova. *Bull. Applied Botany Genetics and Plant Breeding*. (Leningrad) Ser. III, No. 9, 1-142(in English 143-9)(1935).—Primarily morphological characteristics of some of the pigments, chlorophyll and chloroplasts in peas of the various parts of the world. Also some characteristics of the starch grains.

J. S. Joffe



ALEKSANDROV, V. G.

"On the State of the Cell Nuclei in the Pericarp and the Endosperm of Wheat During the Period of Maturation of the Grain," Dokl. AN SSSR, 22, No.4, 1939.

Anatomical Lab., All-Union Plant Industry Inst., Pushkin

ALEKSANDROV, V. G.

"Anatomical Characters of the Achenes of the Early Maturing and Late Maturing Wheat," Dokl. AN SSSR, 23, No.4, 1939

Anatomical Lab., All-Union Inst. of Plant Industry, Pushkin

ALEKSANDROV, V. G.

"Development of Endosperm in Cereal Kernel and Its Morphology," Dokl. AN SSSR, 24, No.8, 1939

Anatomical Lab., All-Union Inst. of Plant Industry, Pushkin

ALEKSANDROV, V. G.

"Formation of Endosperm in Hard and Soft Wheats," Dokl. AN SSSR, 25, No.4, 1939.

All-Union Inst. Plant Ind., Pushkin

ALEKSANDROV, V. G.

"On Vaculization of the Cells of the Developing Endosperm in Wheat," Dokl. AN SSSR, 26, No.3, 1940

Anatomical Lab., All-Union Inst. Plant Industry im. Pushkin

ALEKSANDROV, V. G.

"Peculiarities of the Endosperm Development in Wheats with Short and Long Periods of Ripening," Dokl. AN SSSR, 26, No.3, 1940

ALEKSANDROV, V. G.

"On Some Structural Peculiarities of the Glumes and the Paleae in Wheat," and "Distribution and Structure of the Assimilatory Tissue in the Spike of Wheat," Dokl. AN SSSR, 27, No.5, 1940

Anatomical Lab., All-Union Inst. Plant Ind. im. Pushkin

ALEKSANDROV, V. G.

"Ear of Wheat at Early Phases of Its Development and the Particulars of Its Structure," Dokl. AN SSSR, 29, No.3, 1940

Anatomical Lab., Inst. of Plant Industry im. Pushkin

ALEKSANDROV, V. G.

"On the Structure of Pericarp in Wheat Kernel," Dokl. AN SSSR, 40, No.2, 1943

Komarov Botanical Inst., Acad. Sci

ALEKSANDROV, V. G.

"On the Structure of Spermoderm of the Wheat Kernel and on Protandry," Dokl. AN SSSR, 42, No.2, 1943

Komarov Botanical Inst.

ALEKSANDROV, V. G.

ALEXANDROV, V. G.

"The Problem of Double Fertilization." (p. 95) by Alexandrov, V. G.

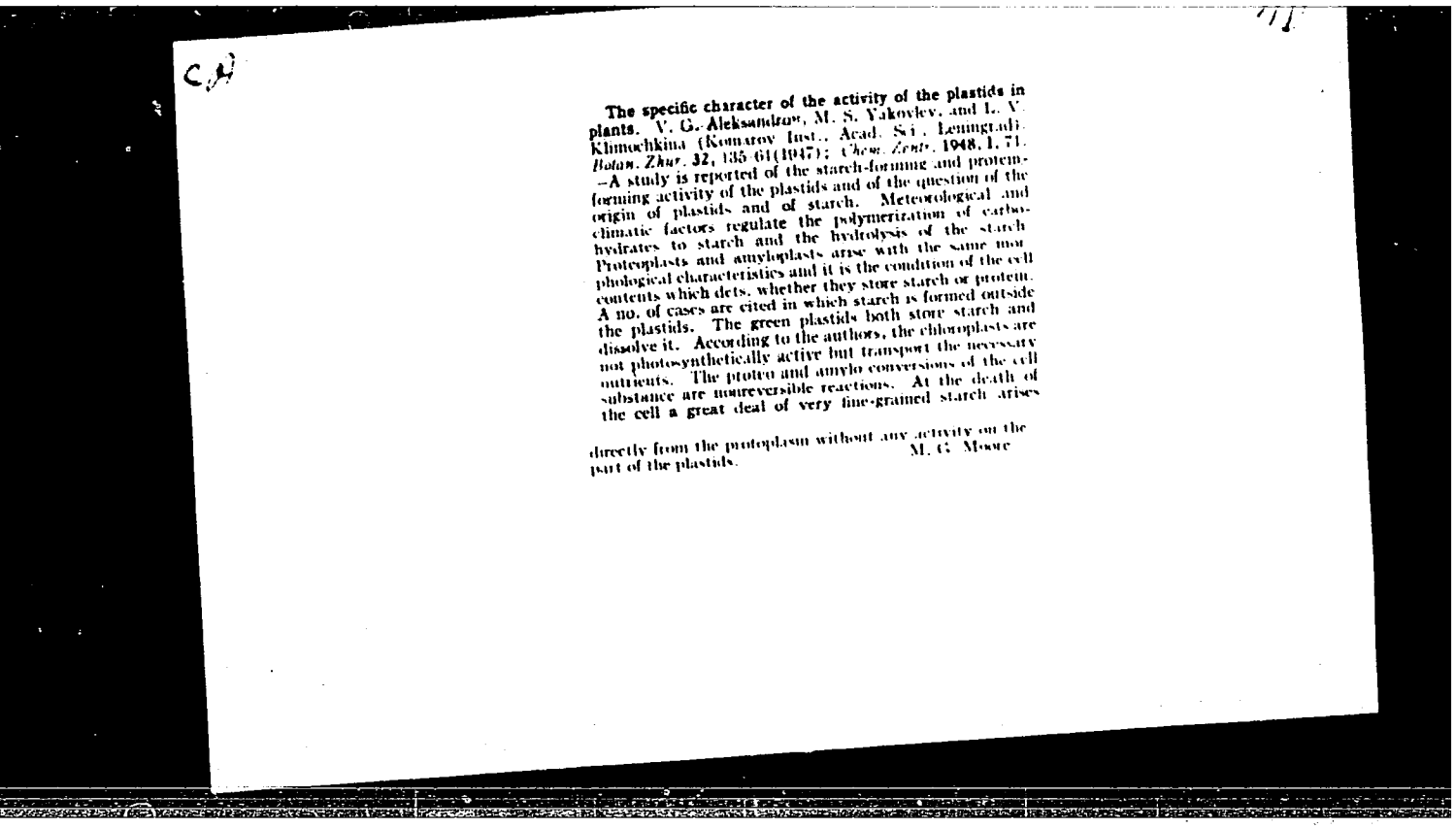
SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologie) Vol. XX, No.1, 1945.

ALEKSANDROV, V. G.,

"Determination of mobile K by the Cobalt-Nitrite method," Pochvovedeniye, No. 12, 1946.

ALEKSANDROV, V. G.

"A New Universal Soil Augur," Pochvoved, No. 6, 1947.



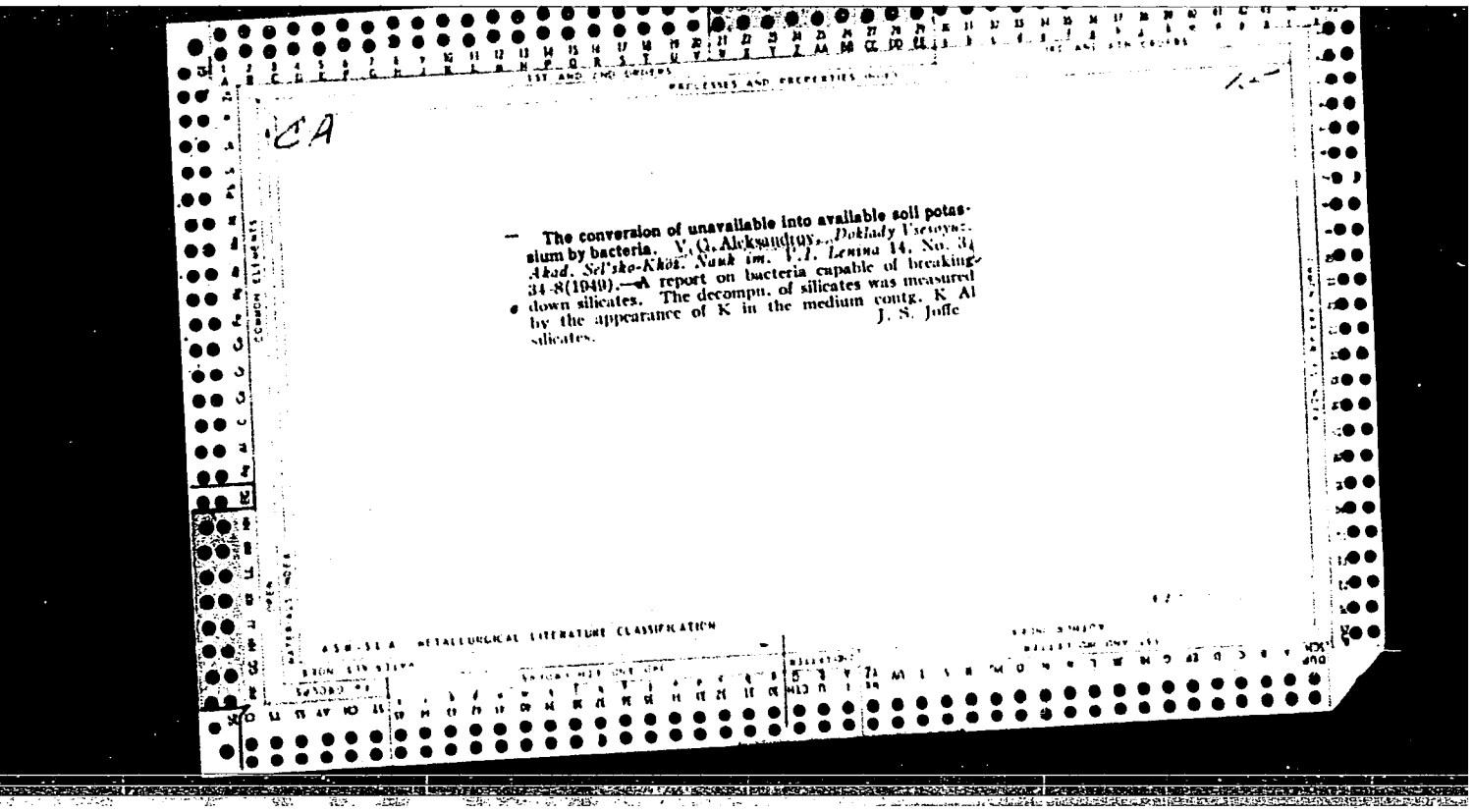
CA

The specific character of the activity of the plastids in plants. V. G. Aleksandrov, M. S. Yakovlev, and L. V. Klimochkina (Komarov Inst., Acad. Sci., Leningrad). *Botan. Zhur.* 32, 135-61(1947); *Chem. Zents.* 1948, I, 71. —A study is reported of the starch-forming and protein-forming activity of the plastids and of the question of the origin of plastids and of starch. Meteorological and climatic factors regulate the polymerization of carbohydrates to starch and the hydrolysis of the starch. Proteoplasts and amyloplasts arise with the same morphological characteristics and it is the condition of the cell contents which dets. whether they store starch or protein. A no. of cases are cited in which starch is formed outside the plastids. The green plastids both store starch and dissolve it. According to the authors, the chloroplasts are not photosynthetically active but transport the necessary nutrients. The proto and amylo conversions of the cell substance are nonreversible reactions. At the death of the cell a great deal of very fine-grained starch arises directly from the protoplasm without any activity on the part of the plastids.

M. G. Moore

The dynamics of available potassium in the gray soil zone of the Turkmen S. S. R. V. G. Alekseenkova. *Pedology* (U.S.S.R.) **1940**, 527-34.—Replaceable K was detd. in 1939 and 1940 on soils devoted to cotton, fallow, and spring wheat. The samples were taken at depths of 20 cm. to a total depth of 1 m. and immediately analyzed. In 1941, the exchangeable K was also detd. on a soil in alfalfa. It was noted that available K rapidly disappears in the spring and accumulates in the fall-winter seasons. These conditions prevailed in fields with or without a crop. It is claimed that the awakened microbial flora in the spring immobilizes the K. Under the alfalfa, the K content decreased with an increase in the moisture reserves supplied by irrigation. I. S. Ioffe

Turkman Agricultural Institute



CA

— The conversion of unavailable into available soil potassium by bacteria. V. O. Aleksandrov. *Doklady Vsesoyuz. Akad. Sel'sko-Khoz. Nauk im. V. I. Lenina* 14, No. 3/4 34-8(1949).—A report on bacteria capable of breaking down silicates. The decompn. of silicates was measured by the appearance of K in the medium contg. K Al silicates. J. S. Joffe

ALEKSANDROV, V. G. (Cand. Agri. Sci.)

"Seasonal Variations in the Potassium Assimilated by Sierozem and Factors Causing These Variations," Dok. v-s #AKO Selkhoz. Nauk, No. 10, 1949.

CA

15

The role of silicate bacteria in the mobilization of potassium in the soil and the increase in yield of spring wheat and corn. V. G. Aleksandrov. *Doklady Vsesoyuz. Akad. Sel'sko.-Khoz. Nauk im. V. I. Lenina* 14, No. 12, 12-19 (1949); cf. C.A. 43, 8081c. Chernozem soil in pots was heated in the autoclave for 1 hr. at 1 atm. pressure. This soil was inoculated with a culture of *Bacillus silicicus*, which resembles *Bacillus mucilaginosus* described by Krasil'nikov (*The Determinants of Bacteria and Actinomycetes*, 1949). These bacilli are spore formers and are cultured on silicate-agar media. Besides the bacteria, the pots received superphosphate and NH_4NO_3. The pots without bacteria received some KCl as a source of K. The increase in yield of wheat or corn with the bacteria was as high as with KCl, as compared with the control without bacteria and without KCl. Apparently, the bacteria that attack the silicates are capable of releasing sufficient K. J. S. Joffe

*ALEKSANDROV, V.G. CAND TECH SCI

Dissertation: "Calculation of Thin-walled Beams for joint action of bend and torsion under mobile load."

17 May 49
Central Sci Res Inst of Industrial Structures.

SO Vecheryaya Moskva
Sum 71

ALEKSANDROV, Vasiliy Georgiyevich

"Morphologico-Anatomical Properties ofAchenes of the Thistle Family from the Anthemidean Tribe as an Indicator of the Conditions of Their Genesis and Habitat," Botan. Zhur., 34, No. 2, 1949.

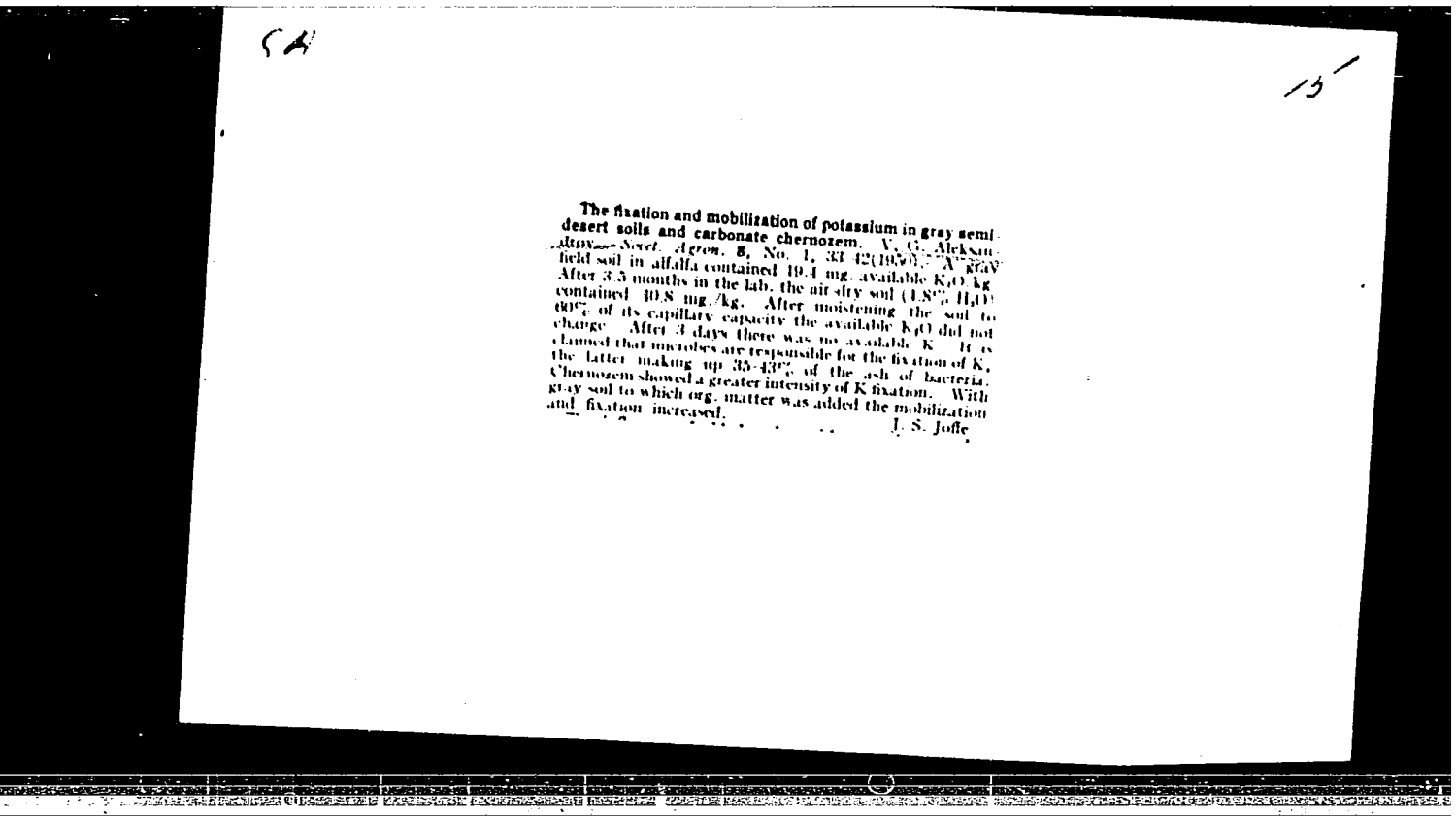
(Botanical Inst. im. V. L. Komarov, Dept. Biol. Sci., Acad. Sci; Lab. Morphology and Anatomy of Plants, Leningrad.)

ALEKSANDROV, Vasiliy Georgiyevich

"Styles, Stylopodia, and the Nature of theFruit of the Carrot Family," Dok. An., 70, No. 1, 1950.

ALEKSANDROV, Vasiliy Georgiyevich

"The Biology of Green Plastids in Plants," Dok. AN., 70, No. 1, 1950.



CA

15

The fixation and mobilization of potassium in gray semi-desert soils and carbonate chernozem. V. G. Alekseev. *Pochvovedenie Sovet. Agron.* **8**, No. 1, 33-42(1940).—A field soil in alfalfa contained 19.4 mg. available K_2O/kg. After 3.5 months in the lab. the air-dry soil (1.8% H_2O) contained 40.8 mg./kg. After moistening the soil to 60% of its capillary capacity the available K_2O did not change. After 3 days there was no available K. It is claimed that microbes are responsible for the fixation of K, the latter making up 35-43% of the ash of bacteria. Chernozem showed a greater intensity of K fixation. With gray soil to which org. matter was added the mobilization and fixation increased.

J. S. Joffe

CA

Bacteria which decompose aluminum silicates (silicate bacteria). V. G. Aleksandrov and G. A. Zak (Agr. Inst., Kuibyshev). *Mikrobiologiya* 19, 97-104(1950).—Organisms which decomp. Al silicates include *Bacillus mucilaginosus*, subspp. *silicens* (I) and *B. megatherium* De Bary (II), both isolated from Kuibyshev chernozem. Soils in Middle Asia also yielded I. Since K is a component in many Al silicates, organisms such as I and II are potent factors in liberating K from soils for assimilation by plants. Julian F. Smith

ALEKSANDROV, V. G.

Kaden, N. N., Aleksandrov, V. G. and Konovalov, I. N. (Reviews and Bibliography) "The Morphological Essence of the Fruits of Rosaceae and Corylus and the Nature of the Fruit of some Rosaceae". P. 143

Chair of Higher Plants
Aug. 5, 1950

SO: Herald of the Moscow University, Series on Physics-Mathematics and Natural Sciences, No. 3, No. 5, 1951

ALEKSANDROV, V. G. (and others)

Heteroauxin

Structural changes in tissues caused by substances stimulating growth and development.

Trudy Bot. inst. AN SSSR., Ser. 7, No. 2, 1951.

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED

ALEKSANDROV, V. G., SAVCHENKO, M. I.

Flowers - Anatomy

Peculiarities of the history of development of fruit and seeds in the compositae family. Trudy Bot. inst. AN SSSR Ser. 7, No. 2, 1951.

Monthly List of Russian Accessions, Library of Congress, June 1952, UNCLASSIFIED

ALEKSANDROV, V. G. ALEKSANDROV, O. G.

Wheat

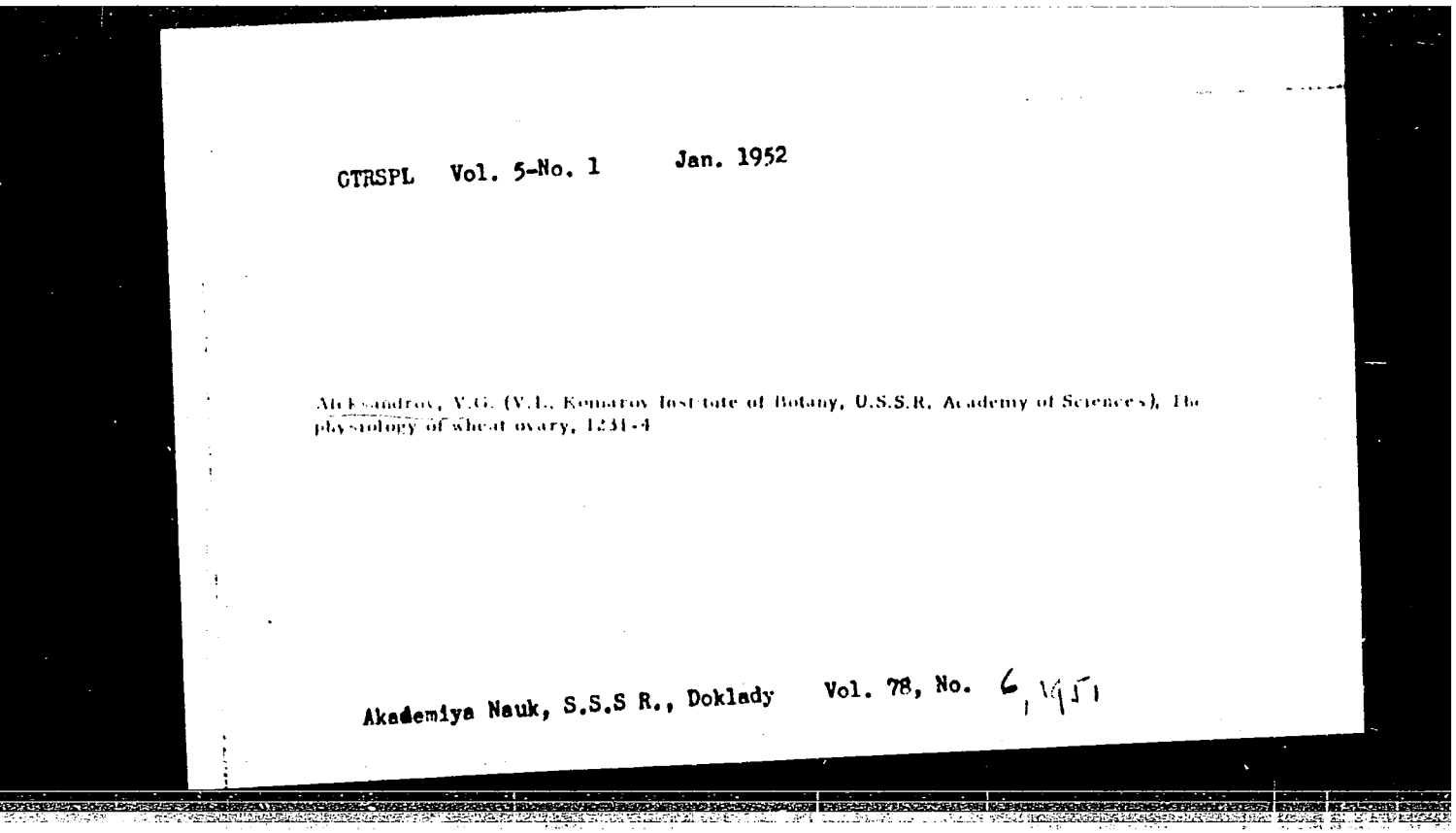
Morphological and physiological characteristics of wheat spike and grain. Trudy Bot. inst. AN SSSR. Ser. 7 No. 2, 1951.

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED

13TR

2062. **The Application of Silicate Bacteria to the Roots of Cotton Plants.** (In Russian.) V. G. Aleksandrov. *Doklady Vsesoiuznoi Ordena Lenina Akademii Sel'skokhozaistvennykh Nauk imeni V. I. Lenina*, v. 16, no. 5, 1951, p. 25-33.

The influence of the above on the growth and yield of cotton was determined experimentally. Results are tabulated and charted.



CTRSPL Vol. 5-No. 1 Jan. 1952

Aleksandrov, V.G. (V.L. Komarov Institute of Botany, U.S.S.R. Academy of Sciences), The physiology of wheat ovary, 1231-4

Akademiya Nauk, S.S.S R., Doklady Vol. 78, No. 6, 1951

ALEKSANDROV, VASILIY GEORGIYEVICH

"Application of Silicate Bacteria Under the Cotton Plant," Doklady Vsesoyuzn. Akad. S.-kh. Nauk im Lenina (Papers of the All-Union Academy of Agricultural Sciences imeni Lenin), No. 5, 1951, pp 25-33.

Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132, Uncl.

ALEKSANDROV, V.G.; PERVUKHINA, N.V.

Physiological interpretation of the structural development of the ovary and fruit of Ammiaceae (exemplified by Heracleum and Scandix). Trudy Bot.inst. Ser.7 no.3:5-47 '52. (MLRA 8:4)
(Ammiaceae) (Botany--Morphology)

ALEKSANDROV, V.G.; ALEKSANDROVA, O.G.

Physiology of the embryo sack. Trudy Bot.inst. Ser.7 no.3:147-164 '52. (MLRA 8:4)

(Botany--Embryology)

ALEKSANDROV, V.G.; ZHESTYANIKOVA, L.L.

Effect of ramosity of the spike on the structure of the wheat kernel. Trudy Bot.inst. Ser.7 no.3:212-225 '52. (MLRA 8:4)
(Wheat)

ALEKSANDROV, V. G.

Soils - Bacteriology

Importance of silicate bacteria in raising yield of the cotton plant. Sov. agron. 10, No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED

1. ALEKSANDROV, V.G.

2. USSR (600)

4. Fruit - Morphology

7. Example of convergence in the organization of the fruit of the Pomoideae and Prunoideae subfamilies of the Rosaceae family. Dokl. AN SSSR 84 no. 1, 1952.
Botanicheskiy Institut im. V.L. Komarova Akademii Nauk SSSR
rcd. 25 Jan. 1952

9. Monthly List of Russian Accessions. Library of Congress, September 1952. UNCLASSIFIED.

ALEKSANDROVA, V. G., Pod red

Science

Morphology and anatomy of plants, Pod red. V. G. Aleksandrova, Izd. Akademii nauk SSSR. Vol. 3. 1952.

(Botanicheskii institut im. V. L. Komarova. Trudy. Seriia 7)

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

ALEKSANDROV, V.G.

[Silicon bacteria] Silikatnye bakterii. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1953. 114 p.
(MLRA 6:7)
(Microorganisms, Nitrogen-fixing)

ALEKSANDROV, V.G.; ALEKSANDROVA, O.G.

Initial phases of the formation of endospermal tissue in the wheat caryopsis. Izv. AN SSSR Ser.biol. no.4:87-105 Jl-Ag '53. (MLRA 6:7)

1. Botanicheskiy institut imeni V.L.Komarova Akademii nauk SSSR, Leningrad. (Plant cells and tissues) (Wheat)

ALEKSANDROV, V.G.

Possibility of nonplastid formation of starch in plant cells. Doklady Akad. Nauk S.S.S.R. 89, 561-4 '53. (MLRA 6:3)
(CA 47 no.16:8195 '53)

ALEKSANDROV, V.G., professor; SHIK, T.M., redaktor; GRIBOVA, M.P., tekhnicheskiy redaktor

[Anatomy of plants] Anatomiia rastenii, Izd. 3., ispr. i dop. Moskva, Gos. izd-vo "Sovetskaia nauka," 1954. 498 p. (MLRA 7:8)
(Botany--Anatomy)

ALEKSANDROV, V. G. Botany

Card 1/1 : Pub. 42-7/11

FD -1575

Author : Aleksandrov, V. G. and Aleksandrova, O. G.

Title : On the atrophy and disintegration of nuclei in the cells of the endosperm of cereals as one of the most important factors which cause intensive formation ["naliv"] of grain

Periodical : Izv. AN SSSR. Ser. biol. 5, 88-103, Sep-Oct 1954

Abstract : Studied formation of fine-grained chondriosomal starch in endosperm cells of ripening grains of wheat during period of intensive formation of grains and the associated disintegration of endosperm cells of the developing grain of wheat as a contributory factor in the intensive formation of the grain during the ripening process. Microsection drawings. Fifteen references, 13 USSR (8 since 1940).

Institution : Botanical Institute imeni V. L. Komarov of the Academy of Sciences of the USSR

Submitted : January 30, 1954

ALEKSANDROVA, V. G.

"Changes in Acidity of Alkaline Blood Phosphatase Under the Effect of Treatment at Gurzuf Sanatorium and Health Resort," Voyenno-Med. Zhur., No. 6, p. 80, 1955.

ALEKSANDROV, V.G.

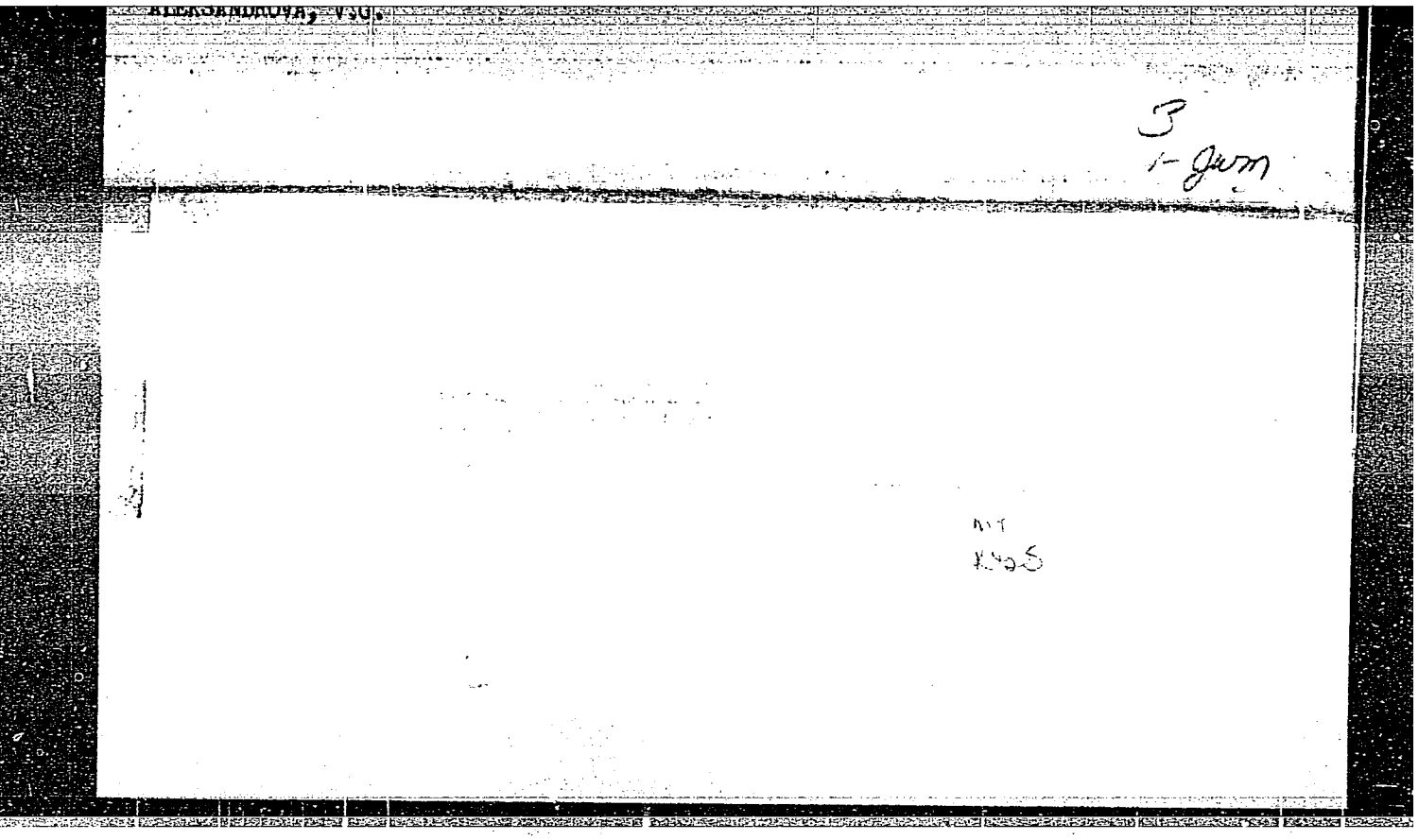
K.IU.Abesadze; obituary. Bot.zhur. 41 no.9:1401-1402 S '56.
(MLRA 9:11)

1. Botanicheskiy institut imeni V.L.Komarova Akademii nauk SSSR, Leningrad.
(Abesadze, Ketevana IUlianovna, d.1955)

ALEKSANDROV, V.G.; DOBROTVORSKAYA, A.V.

Formation and morphological characteristics of flower stamens in Angiosperms. Dokl.AN SSSR 110 no.5:862-865 O '56. (MLRA 10:1)

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR.
(Flowers--Morphology) (Angiosperms)



ALEKSANDROV, V.G.; DOBROTVORSKAYA, A.V.

Morphological nature of the stamen, petals, and so-called filament tube in the mallow flower. Trudy Bot.inst.Ser.7 no.4:83-137 '57. (MLRA 10:3)

(Mallow) (Inflorescence)

ALEKSANDROV, V.G.

"Principles and methods of the anatomical study of wood" by A.A. IAtsenko-Khmelevskii. Reviewed by V.G. Aleksandrov. Bot.zhur.42 no.2:302-303 F '57. (MLRA 10:3)

(Wood) (Botany--Anatomy)

(IAtsenko-Khmelevskii, A.A.)

ALEKSANDROV, V.G.; DOBROTVORSKAYA, A.V.

Specific features of the development of stamens and the fibrous layer of anthers. Bot.zhur. 42 no.10:1473-1490 O '57. (MIRA 10:10)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR, Leningrad.
(Inflorescence) (Mallow) (Mistletoe)

ALEKSANDROV, V.G.; DOBROTVORSKAYA, A.V.

Study of the androecium in Viscum album L. Dokl. AN SSSR 112 no.3:549-552 Ja '57. (MLRA 10:4)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR. Predstavleno akademikom V.N. Sukachevym.
(Mistletoe) (Plants, Flowering of)

ALEKSANDROV, V.G.

ZHUKOVSKIY, P.M., red.; SOCHAVY, V.B., red.; SUKACHEV, V.N., red.; TIKHOMIROV, B.A., red.; SHISHKIN, B.K., red.; ALEKSANDROV, V.G., red.; IL'IN, M.M., otvetstvennyy red; YAKOVLEVA, V.M., red. izd-va; ZENDEL', R.Ye., tekhn.red.

[Problems of botany] Problemy botaniki. Pod obshchei red. R.M. Zhukovskogo i dr. Moskva, Izd-vo Akad. nauk SSSR. Vol.3. 1958. 316 p. (MIRA 11:5)

1. Vsesoyuznoye botanicheskoye obshchestvo. 2. Prezident Vsesoyuznogo botanicheskogo obshchestva (for Sukachev)
(Botany)

ALEKSANDROV, V.G.; DOBROTVORSKAYA, A.V.

Metamorphosis of floral elements and morphological nature of stamens (materials on floral physiology of angiosperms) [with summary in English]. Probl. bot. no.3:248-270 '58. (MIRA 11:6)
(Metamorphosis) (Flowers--Morphology) (Angiosperms)

ALEKSANDROV, V.G., doktor sel'skokhozyaystvennykh nauk.

Adding silicate bacteria to organic mineral fertilizers. Dokl. Akad. sel'khoz. 23 no.7:43-48 '58. (MIRA 11:8)

1. Odesskiy sel'skokhozyaystvennyy institut. Predstavlena akademikom I.I. Samoylovym.

(Bacteria, Silicate)
(Fertilizers and manures)

ALEKSANDROV, V.G.; DOBROTVORSKAYA, A.V.

Physiological anatomy of the epidermis of leaflike organs of the wheat ear; flower glume. Bot.zhur. 44 no.6:759-771 Jl '59. (MIRA 12:11)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR, Leningrad.
(Epidermis) (Wheat) (Inflorescence)

ALEKSANDROV, V.G.; DOBROTVORSKAYA, A.V.

Formation of stamens and the fibrous layer of anthers in the flower of some plants. Bot.zhur. 45 no.6:823-831 Je '60. (MIRA 13:7)

(Flowers--Anatomy)

ALEKSANDROV, V.G., prof., red.; DVORYANKIN, F.A., prof., red.; KADEN, N.N., kand. biol. nauk, red.; KUPERMAN, F.M., prof., red.; L'VOVA, I.N., kand. biol.nauk, red.; PALAMARCHUK, I.A., kand.biol.nauk, red.; PODDUBNAYA-ARNOL'DI, V.A., prof., red.; PRONIN, V.A., kand.biol.nauk, red.; RZHANOVA, Ye.I., kand. biol.nauk, red.; ROSTOVTSEVA, Z.P., kand. biol.nauk, red.; SEREBRYAKOV, I.G., prof., red.; USTINOVA, Ye.I., kand. biol.nauk, red.; CHELYADINOVA, A.I., kand. biol.nauk, red.; YERMAKOV, M.S., tekhn. red.

[Morphogenesis in plants; transactions dedicated to the 100th anniversary of the publication of Darwin's "Origin of species."] Morfogenez rastenii; trudy posveshchaiutsia 100-letiiu so dnia vykhoda v svet truda Charlza Darvina "Proiskhozhdenie vidov." Moskva, Izd-vo Mosk. univ. Vol.1. 1961. 683 p. (MIRA 14:9)

1. Soveshchaniye po morfogenezu rasteniy, 1959.
(Botany--Morphology)

ALEKSANDROV, V.G., prof., doktor sel'skokhozyaystvennykh nauk;
GOROKHOVSKIY, L.S., kand.sel'skokhozyaystvennykh nauk;
TERNOVSKAYA, M.I., kand.biologicheskikh nauk

Liquid preparation of silicate bacteria increases yields.
Zemledelie 23 no.9:61-64 S '61. (MIRA 14:12)

1. Odesskiy sel'skokhozyaystvenny institut.
(Field crops—Fertilizers and manures)
(Bacteria, Silicate)

ALEKSANDROV, V.G.; DOBROTVORSKAYA, A.V.

Hermaphroditism of the flower of angiosperms. Trudy Bot.inst.Ser. 7 no.5:5-30 '62. (MIRA 15:2)
(Angiosperms) (Hermaphroditism)

ALEKSANDROV, V.G.; TABENTSKIY, D.A.

State of green plastids in the leaves of some evergreens under conditions of the Leningrad winter. Trudy Bot.inst.Ser. 7 no.5:123-129 '62. (MIRA 15:2)
(Chromatophores) (Evergreens)

ALEKSANDROV, V.G.; MIROSLAVOV, Ye.A.

Characteristics of the structure of leaves of some species of willows growing in the northwestern part of the U. S. S. R. Bot. zhur. 47 no.6:852-856 Je '62. (MIRA 15:7)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(Leningrad Province--Willows)
(Leaves--Anatomy)

ALEKSANDROV, V.G.; IOFFE, M.D.

Mikhail Semenovich IAkovlev; on his 60th birthday. Bot. zhur. 47 no.10:1549-1551 O '62. (MIRA 15:12)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(Iakovlev, Mikhail Semenovich, 1902-)

ALEKSANDROV, V.G. [Aleksandrov, V.H.]; TERNOVSKAYA, M.I. [Ternovs'ka, M.I.]

Effectiveness of a liquid preparation of silicate bacteria in the steppe zones of the Ukraine. Mikrobiol. zhur. 25 no.3:48-53 '63. (MIRA 17:1)

1. Odesskiy sel'skokhozyaystvennyy institut.

ALEKSANDROV, V.G., otv. red.; VAKHTIN, Yu.B., red.izd-va; ZENDEL',
M.Ye., tekhn. red.

[Problems in the genetics of grain crops; injection method]
Voprosy genetiki zernovykh kul'tur; metod in"ektsii. Moskva, Izd-vo Akad. nauk SSSR, 1963. 129 p. (MIRA 16:4)

1. Akademiya nauk SSSR. Karel'skiy filial, Petrozavodsk.
(Grain) (Endosperm) (Grafting)

[redacted], V.I. [Aleksandrov, V.I.]; [redacted], M.I. [Iernova'ka, M.I.]

Liquid silicate bacteria preparation for winter barley. Mikrobiol. zhur. 25 no.1s8-10 '63. (MIRA 17:5)

1. Odesskiy sel'skokhozyaystvennyy institut.

ALEKSANDROV, V.G.; DOBROTVORSKAYA, A.V.

Characteristics of the organization of buds in flowering plants. Dokl. AN SSSR 154 no.1:226-228 Ja'64. (MIRA 17:2)

1. Botanicheskiy institut im. V.L. Komarova AN SSSR. Predstavleno akademikom V.N. Sukachevym.

ALEKSANDROV, V.G.; TERNOVSKAYA, M.I.; BLAGODYR, R.N.

Spectral determination of aluminum and silicon in a culture medium using the filter paper method. Zav. lab. 30 no.6:706 '64 (MIRA 17:8)

1. Odesskiy sel'skokhozyaystvennyy institut.

ALEKSANDROV, V. I.

ALEKSANDROV, V. I.

Aleksandrov, V. I.--"On the use of approximation analysis in the problem of resolving radicals of sixth degree equations," Trudy Azovo-Chernomor. in-ta mekhanizatsii sel. khoz-va, issue 6, 1948, p. 83-84

SO: U-3851, 16 June 53, (Letopis 'Zhurnal 'nykh Statey, No. 5 1949).

ALEKSANDROV, V.[/.]

"Electronic Machines of the Sixth Five-Year Plan," by V. Aleksandrov, Radio, No 11, Nov 56, pp 3-5

This article defines digital and analog computers as follows:

Digital -- "Machines of this class are called electronic mathematical machines of discrete count (digital machines). These machines are intended for the investigation of physical processes and for the solution of engineering problems where high precision is required."

Analog -- "Another means is the principle of analogy, where the elements (functional units) of the mathematical machine are electronic devices which perform all the necessary mathematical functions required for the solution of problems, such as integration, multiplication, addition, and computation of trigonometric and other functions. Machines of this type are called electronic machines of continuous action (nepreryvnogo deystviya)."

The article discusses the following computers:

Strela -- a universal digital computer intended for large calculating centers, it performs at the rate of 2,000 arithmetic operations per second, consumes 90 kw of power, and is composed of 6,800 tubes and 4,000 germanium diodes.

Ural -- a universal digital computer which performs at a speed of 100 operations per second consuming 8 kw of power; it is composed of 800 tubes.

MN-8 -- a large analog computer which is capable of executing 32 integration operations, 48 summation operations, and 48 multiplications. It can investigate a 30-minute-duration process to an accuracy of a few percent. The machine has 2,500 tubes and consumes 25 kw of power.

MN-1 -- an analog computer which can investige nonlinear systems of common differential equations up to 12th order.

The article says that the future efforts of Soviet computer designers will be directed toward increasing the speed of operation (several tens of thousands per second), reducing the number and size of tubes, and replacing tubes by semiconductor and ferrite elements.

The computer manufacturing industry will aim to increase its production during the Sixth Five-Year Plan to 4.5 times the present level.

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SOV/115-58-5-11/36

AUTHOR: Sokolov, A.A. and Aleksandrov, V.I.

TITLE: Electronic Analytical Balances (Elektronnyye analiticheskiye vesy)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 5, pp 24-25 (USSR)

ABSTRACT: The paper describes an electronic analytical balance for rapid weighing of steel samples in high-speed analysis. The construction is that of a normal, undamped single-armed VA-200 balance from the "Gosmetr" Plant. The conversion of such a balance to an electronic one needs only the replacement of weights by the magnetic field force of a coil. The circuit is that of an automatic regulator using a servo-amplifier with an invariable amplification factor. This permits simplification of the amplifier circuit as well as a reduction in amplification, without any increase of the static error limits. To ensure constant operation of the regulating device, the product of the amplifier output is fed back to the amplifier input. The

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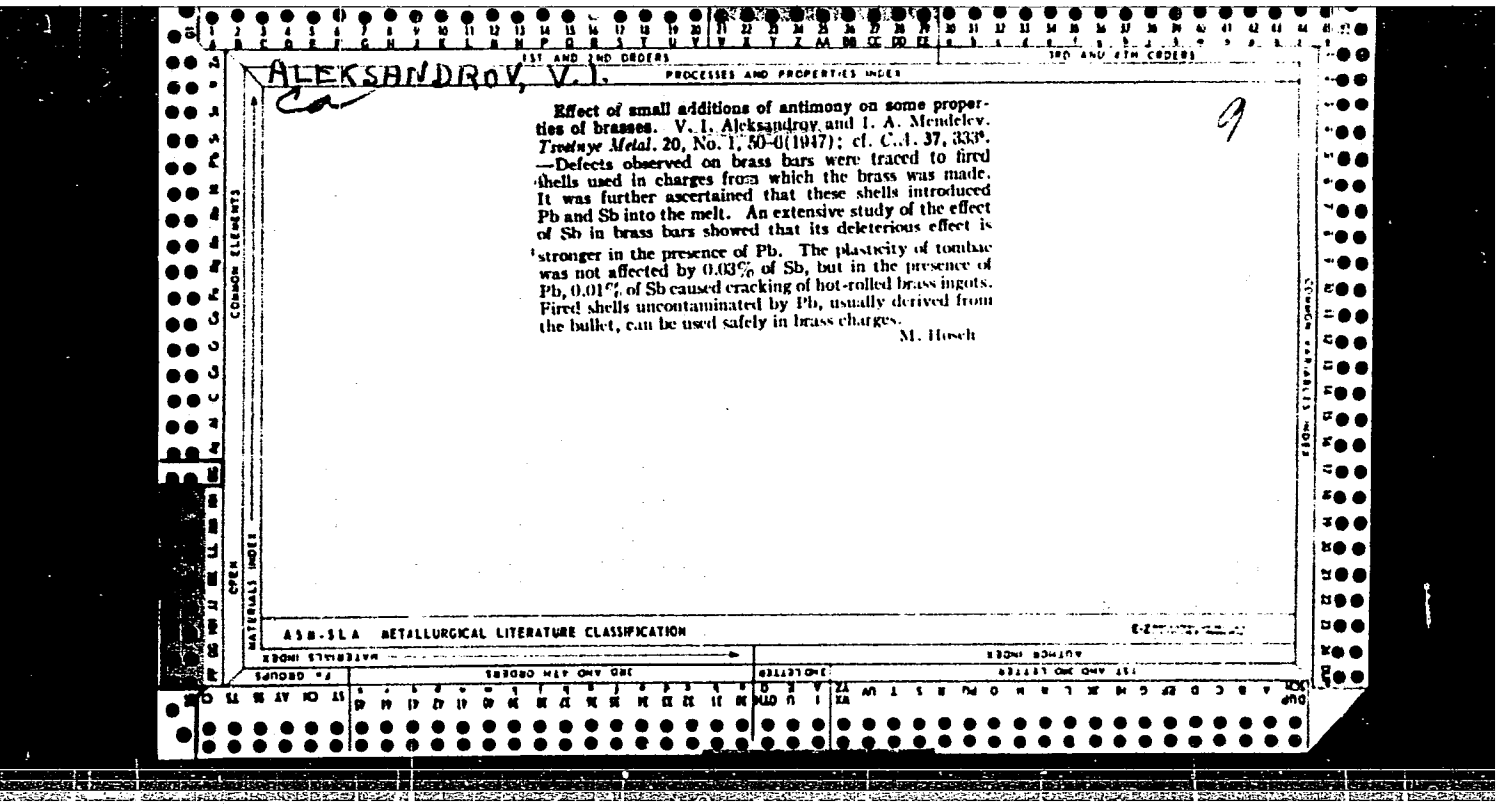
pointer is set at zero with the scale unloaded, by means of a potentiometer. The output current is set up 0.1 sec. after the weight is placed on the scale and the time needed for a weighing is the same as that required by the pointer of the device, that is measuring this current, to come to rest, i.e. from 1 to 2 seconds. The electronic balance draws about 30 watt. There are 2 tables, 1 schematic diagram, 1 circuit diagram, 1 photograph and 3 Soviet references.

ALEKSANDROV, V. I.

Peat Industry

Lighting of peat-gathering machines TUM and UKB. Tor. prom. 29, no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED



ALEKSANDROV, V. I.

PROCESSES AND PROPERTIES INDEX

Effect of small additions of antimony on some properties of brasses. V. I. Aleksandrov and I. A. Mendelev. *Tsvetnye Metal.* 20, No. 1, 50–6(1947); cf. *C.A.* 37, 333⁹. —Defects observed on brass bars were traced to fired shells used in charges from which the brass was made. It was further ascertained that these shells introduced Pb and Sb into the melt. An extensive study of the effect of Sb in brass bars showed that its deleterious effect is stronger in the presence of Pb. The plasticity of tombac was not affected by 0.03% of Sb, but in the presence of Pb, 0.01% of Sb caused cracking of hot-rolled brass ingots. Fired shells uncontaminated by Pb, usually derived from the bullet, can be used safely in brass charges.

M. Hoseh

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

ALEKSANDROV, V.I., inzhener.

Die for one-sided drawing on a double-action press. Vest.elektroprom. 27 no.7:24-25 Jl '56. (MLRA 10:8)

1.Zavod imeni Vladimira Il'icha.
(Power presses)

ALEKSANDROV, Vasiliy Ivanovich; YEL'KOV, F., red.; SAFONOVA, M., tekhn. red.

[Multiblade cutting tools]Mnogolezviinye reztsy. Barnaul, Altaiskoe knizhnoe izd-vo, 1963. 79 p. (MIRA 17:3)

ALEKSANDROV , V.I.

Tukovye seialki, rasteniepitateli i navozorazbrasyvateli (Fertilizer drills, manure spreaders and plant feeding machinery). Moskva, Mashgiz, 1954. 87 p.

SO: Monthly List of Russian Accessions, Vol 7, No. 8, Nov. 1954

ALEKSANDROV, V.I.

The SKON-4,2 combined suspended vegetable seeder. Biul. tekh.-ekon. inform. no.3:59-61 '58. (MIRA 11:6)
(Agricultural machinery)

ALEKSANDROV, V.I.; CHERNOBAYEV, B.P. ERENBURG, A.A.; BUBYAKIN, A.A.

AT-2M fertilizer spreaders with one regulator. Trakt. i sel'khozmash. no.11:32-35 N '58. (MIRA 11:11)

1. Ryazanskiy zavod sel'skokhozyaystvennogo mashinostroyeniya.
(Fertilizer spreaders)

ALEKSANDROV, V.I., inzh.; RASSOLOVA, T.

GN-2 mounted lister. Trakt. i sel'khozmash. no.12:27-28 D '58.
(MIRA 11:12)
(Agricultural machinery)

ALEKSANDROV, V.I.; MANEVICH, A.B.

The SOKSSh-2,8 combined vegetable-seed planter. Trakt. i sel'-khozmash. no.1:34 Ja '59. (MIRA 12:1)
(Planters (Agricultural machinery))