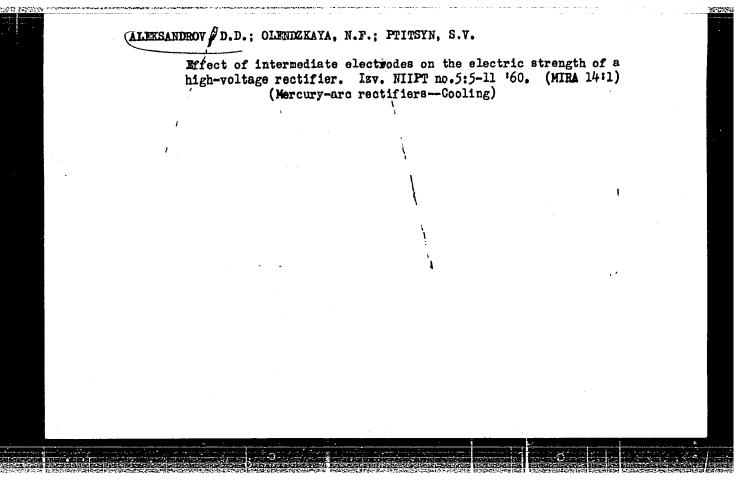
SOV/109-4-8-9/35

Influence of the Intermediate Electrodes on the Ignition Voltage of a Self-sustaining Discharge in a High-voltage Mercury Rectifier

relatively to the curves of a "free" gap. At a mercury vapour pressure of 4 x 10<sup>-3</sup> mm Hg, the breakdown voltage of a rectifier without inserts is about 70 kV, while in the presence of the inserts, it is about 250 kV. The effect of the geometrical dimensions on the inserts was also investigated: this is illustrated in Figures 3, where Curve 3 was taken for the tube with one insert, whose thickness was 1.5 cm; Curve 4 was taken when the insert had a thickness of 3 cm. It is seen that by increasing the thickness of an insert, the Paschen curves are again shifted to the right. There are 6 figures and 6 Soviet references.

SUBMITTED: March 5, 1959

Card 3/3



27995 S/194/61/000/004/038/052 D201/D302

9,2150 (1020,1159,1331)

AUTHORS: Aleksandrov, D.D., Olendzkaya, N.F. and Ptinsin, S.V.

TITIE: The influence of intermediate electrodes on the elec-

tric strength of a high voltage rectifier

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,

no. 4, 1961, 30-31, abstract 4 G204 (Izv. N.-i. in-

ta postoyan toka, 1960, vol. 5, 5-11)

TEXT: The static electric strength of a high voltage rectifier with no current drawn at Hg vapor pressure within the limits 1-2 microns Hg, is determined by the laws of breakdown in vacuo. When the rectifier is loaded, the pressure observed at the walls and sideregions of the anode structure is 3-4 microns Hg, so that mercury condensation may occur at surfaces having a temperature of 30-40°C. The condensate drops, falling on to the more heated parts, may introduce short duration (up to 1 sec) increases in pressure - up to 6-8 microns Hg at the anode end. In these conditions the breakdown

Card 1/2

27995 S/194/61/000/004/038/052 D201/D302

The influence of intermediate ...

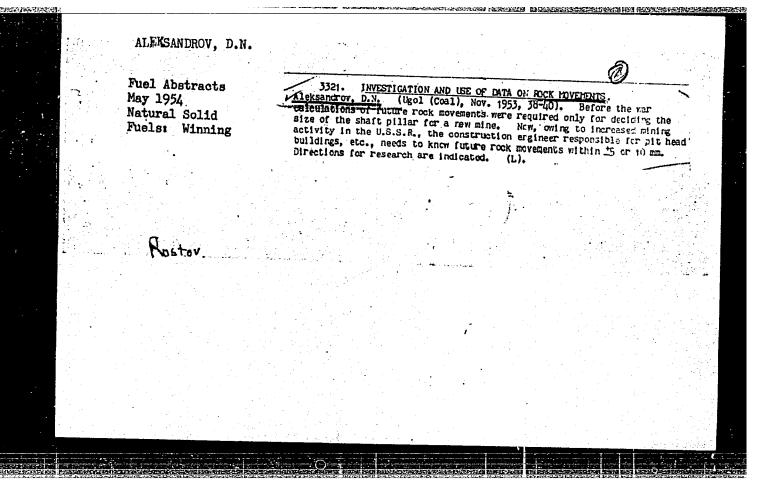
is determined by the ignition of the working glow discharge. Investigations have shown that the presence of intermediate electrodes inserts in the anode assembly increases the value of the breakdown voltage with increasing vapor densities. The effect becomes more pronounced with the decrease of the exposed surfaces of inserts and with the increase of their thickness. For a number of inserts greater than two, the breakdown voltage remains practically constant and independent of their numbers, provided their geometrical dimensions remain the same. In the presence of inserts the breakdown voltages for vapor of Hg, air and H2 remain constant; in intervals, without the inserts, the breakdown voltages decrease with the experiment being repeated. Pre-ageing by means of a glow discharge in an inert gas seems to be the most effective method of cleaning the surfaces. The pre-ageing conditions are given together with the curves of breakdown voltage characterising a well pre-aged rectifier. 4 references. [Abstracter's note: Complete translation]

Card 2/2

ALEKSANDROV, D. I.

6780. Aleksandrov, D. I. Komnatnaya kul'tura limona v Moldavii. Prakt. ukazaniya. Kishinev, gosizdat moldavii, 1954. 40 s. s. Ill. 20 sm. (Glav. upr. s.-kh. propagandy i nauki MSKH MSSR). 2.000 ekz. 50 k.--Bibliogr: v kontse knigi (10 nazv.) -- (55-2613) P 634.33 (47(75) % (016.3)

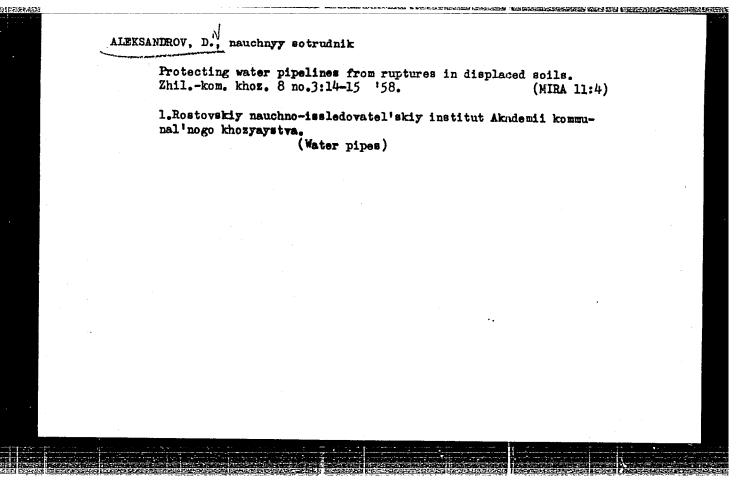
SO: Knizhnaya Letopis' No. 6, 1955



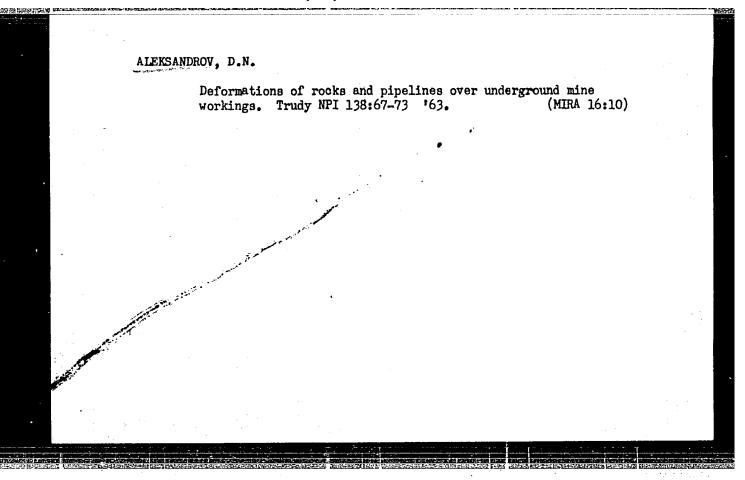
SHUBERT, S.A.; PERLIMA, A.M.; KULZHINSKIY, V.I.; SIDEMEO, T.K.; ALEKSANDROV, D.M.; SOKOLOV, V.F.; FAL'KOYSKAYA, L.M.; BRUK-LEVINSOM, T.L.; BELYAKOVA, A.M.; KOZHEVNIKOVA, Ye.K.; AVRUSHCEENKO, R.A., red. izd-va; VOIKOV, S.V., tekhn.red.

[[Water purification for water supply to machine-tractor stations and state farms] Ochiatka vody dlia vodosnabzheniia poselkov MTS i sovkhosov. Moskva, Izd-vo M-va kommun.khoz. RSFSR, 1957, 69 p. (MIRA 11:6)

1. Akademiya kommunal'nogo khozyaystva, Hoscow. (Water--Purification) (Water supply, Rural)



ALEKSANDROV, D. N., Cand Tech Sci -- (diss) "Problem of the study and prevention of damage to water pipelines above underground developments." Moscow, 1960. 20 pp; (Academy of Economy im K. D. Pamfilov); 150 copies; price not given; (KL, 25-60, 130)



VASILIVEV, N.V., kand. tekhn. nauk.; ALEKSAIDROV, D.S., inzh.

Using removable brass Tining in butt welding of pipes. Nov. tekh. i pered. op, v stroi. 20 no.11:10-12 N '58. (MIRA 11:11)

(Pipe, Steel-Welding)

VASILIYEV, N.V., kand. tekhn. nauk.; ALEKSANDROV, D.S., inzh.

Laying sewers by the method of pressing. Nov. tekh. i pered. op. v stroi. 20 no.11:12-14 N '58. (MIRA 11:11) (Sewers, Concrete)

BORISOV, V. N.; ALEKSANDROV, D. S.; MEZHUYEVA, V. V.

Study of the arc quencing properties of freon and electron gas. Elektroenergetika no.6:129-136 '62. (MIRA 16:4)

(Freon.—Electric properties)
(Electron gas.—Electric properties)
(Electric switchgear)

KHAYUTIN, G.M.; ALEKSANDROV, D.V., red.

[Lectures on the course "Technology of metals: fundamentals of the metallurgy of cast iron, steel, copper and aluminum." Supplement to the course of lectures on the technology of metals published by the All-Union Correspondence Institute of Power Engineering in 1961] Lektsii po kursu "Tekhnologiia metallov: osnovy metallurgii chuguna, stali, medi i aliuminiia." Dopolnenie k kursu lektsii po tekhnologii metallov, lzd. VZEI, 1961. Moskva, Vses. zaochnyi energ. in-t, 1962. 62 p. (MIRA 18:4)

NOVIKOV, I.T.; NEPOROZHNIY, P.S.; GANICHEV, I.A.; LAVRENENKO, K.D.;
FINOGENOV, Ya.I.; ALEKSANDROV, D.Ya.; SERDYUKOV, N.P.;
KUDRYAVTSEV, L.N.; PETROV, A.N.; BANNIK, V.P.; VOLKOV, I.M.;
MEL'NIKOV, B.V.; STAROSTIN, I.A.; BUBNOVSKIY, G.A.; SUVORIN,
F.Ya.; GRITSAY, B.I.; SKUPKOV, A.A.; BAMSHTEYN, Ye.B.; TURCHIN,
N.Ya.

BULGARIA

Capt E. ALEKSANDROV, Medical Corps.

"Normal Antistreptolysin Titer Levels at Hilitary Age."

Sofia, Voenno Meditsinsko Delo, Vol 7, No 4, Dec 1962; pp 57-62.

Abstract [Russian survary modified]: Study to determine hemolytic Strep distribution in Bulgaria. Among 202 soldiers in Southeastern Bulgaria in summer 1960, average titer was 292.6 units; 10.2% were found to be carriers of hemolytic strains. In an earlier unpublished study in the same group, 9.16% of 1163 were found to be carriers. Author comments that titers are very high in Bulgaria in view of its relatively southern rosition. The data are discussed in the context of age groups and exidemiologic geographic localities. Three tables, 5 Bulgarian, 4 Soviet and 2 German references.

1/1

SOV/49-59-10-18/19

AUTHOR: Aleksandrov, E. L.

TITLE: Sixth All-Union Conference on Clouds

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya 1959, Nr 10, pp 1526-1527 (USSR)

ABSTRACT: The Conference took place on the 15 to 20 June 1959
in the Institute of Applied Geoph ics, Academy of Sciences
USSR, and was convened by the Co-ordination Council
for problems of the physics of clouds and precipitation.
The Fifth Conference took place in February 1956. The
Conference advised on the improvement of research in
the following: 1 - aero-synoptic and microphysics of
cloud, 2 - sounding of atmosphere, 3 - chemistry of
water aerosol, 4 - theoretical analysis of experimental
data, 5 - application of telemechanics, radio techniques
and electricity and such apparatus as rockets in
cloud investigation. The Conference also decided:
6 - to organise an "All-Union Cloud Year" in 1962 with
the following Scientific bodies anticipating: Institutes
and Centres of Academy of Sciences USSR and allied
countries, Central Office of Hydro-Meteorology, Ministry
Card 1/2 of High Education, Meteorological Services etc.

SOV/49-59-10-18/19

Sixth All-Union Conference on Clouds

7 - to initiate an edition of the journal "Cloud and Precipitations" and to organise Seminars (twice per year), 8 - to intensify the exchange of scientific information, and 9 - to call the next Conference in 1961

Card 2/2

1,1173

8/169/62/000/009/092/120 D228/D307

AUTHORS:

Lebedev, S. L. and Aleksanrov, E. L.

TITLE:

Artificial dispersion of cumulus on the introduction

of moistened particles

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 9, 1962, 73, abstract 9B448 (In collection: Issled. oblakov, osadkov i grozovogo elektrichestvá, M., AN SSSR, 1961, 16-22)

TEXT: The reaction of cumulus with the surrounding medium is considered when moistened particles, inducing gravitational coagulation and precipitation, are introduced into a cloud's summit. It is shown that subcloud air cools when rain drops evaporate beneath a cloud, and that ascending currents give place to descending. The break up of a cloud occurs in consequence of the fact that moisture ceases to enter across its lower boundary, and as a result of the evaporation of cloud particles when relatively dry air is drawn in across the upper and side boundaries, the intensity of this process being determined by the cloud's size and by the temperature and the

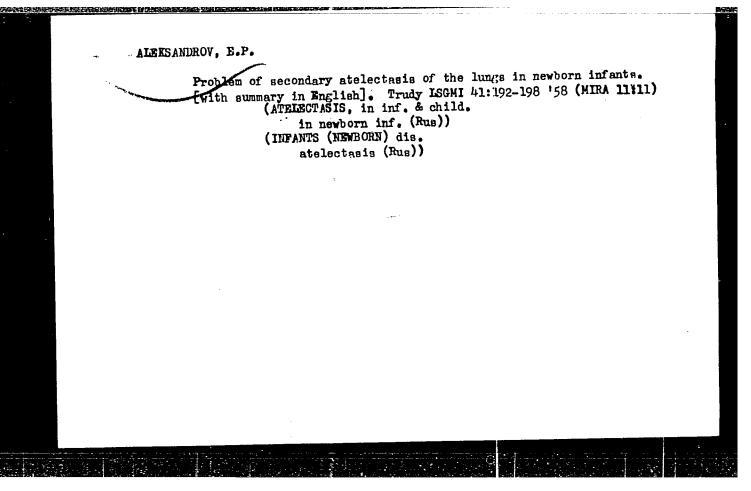
Card 1/3

Artificial dispersion of ...

S/169/62/000/009/092/120 D228/D307

humidity distribution in and outside it. Thick cumulus can "disintegrate itself" after moistened particles have introduced a sufficient mass of water under the cloud. This mass can be ascertained if the cloud's water content and the atmospheric temperature and humidity are known. The introduction under cumulus of enough water from outside the cloud can cause descending currents and the cloud's dispersion. The formation of a "locking" layer near the lower boundary of a cloud, within which an upwards-directed force acts on the sinking cloud masses, plays a decisive part in the cloud's dispersion. The "locking" layer's lower boundary occurs at a level where the relative humidity of air rising into the cloud is still small enough for the atmospheric water to evaporate in amounts, necessary for the density of air beneath the cloud to be equalized with that outside the subcloud column at the same height. The layer's upper boundary occurs at a level above which the cloud's water content is sufficient for the density of air, sinking from there, to become equal at is lower boundary to that of air at the same height outside the subcloud column. The "locking" layer's presence hinders the cloud's spontaneous dispersion when the descending move-Card 2/3

ments of cloud masses are smallAbstracter's note: Complete translation7	Artificial dispersion o	S/169/62/000/009/092/120 D228/D307	(,
	ments of cloud masses at translation7	e small. /Abstracter's note: Complete	



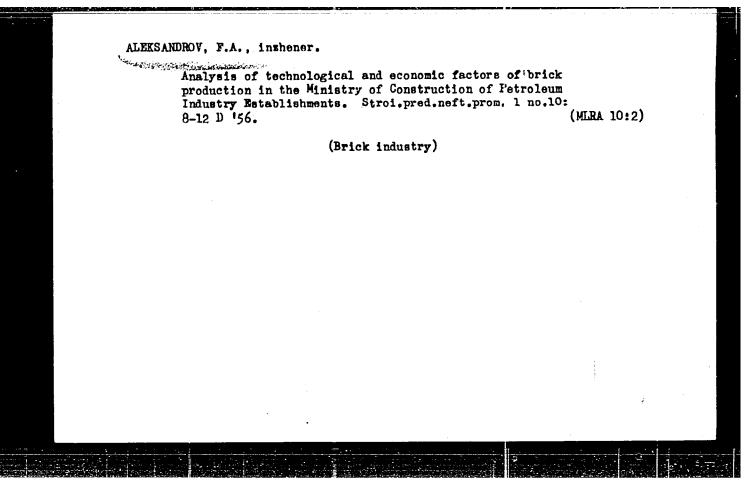
ALEKSANDROV, E.P.; POTYL'CHANSKIY, L.S.

Prevention of sudden death in hypertension and atherosclerosis.
Sud.-med. ekspert. 4 no.3:7-10 J1-5 '61. (MIRA 14:10)

1. Kafedra sudebnoy meditsiny (zav. - prof. A.V.Val'ter) Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.

(HYPERTENSION) (ARTERIOSCLEROSIS)

(DEATH.—CAUSES)



ALEKSANDROV, F. A. - K biologii lympina mnogolcinego. Doklady akad. Nauk sasr, novaya seriya, t. LXVII, No. 6, 1949, s. 1135-34. -Bibliogr: 6 Nazv.

So: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949

"The Biology of the Lupine Perennial (Lupinus),"

- 1. ALEKSANDROV, F. A.
- 2. USSR (600)
- 4. Agriculture
- 7. Michurinist fruit growers of Gor'kiy Province. Gor'kiy, obl. gos. izd., 1952.

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

- 1. ALEKSANDROV, F. A.
- 2. USSR (600)
- 4. Apple
- Role of adventitious buds in the renewal of vital processes in apple trees damaged by frost. Bot. shur. 37. No. 5. 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

ALEKSANDROV, F. A.

V pomoshch' kolkhoznomu sadovodu Aid for collective farm fruit growers. Gor'k. knizh. izd-vo, 1953. 200 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 1 April 1954.

ALEKSANDROY, F.A. USSR/ Biology - Botany Card 1/1 : Pub. 86 - 32/40 Authors ! Aleksandrov, F. A., Cand. Biol. Sci. Title Preventing damage to the trunk base of apple trees Periodical : Priroda 43/4, 116-117, Apr 1954 Abstract : Experimentation is described through which it was verified that the action of the weather in winter tends to injure the bark, cambium and woody tissues of young apple trees on the trunk just above the roots. A preventive measure is prescribed in the form of a wrapping of three or four layers of tar paper at this point. Institution: Submitted

USSR / Cultivated Plants. Grains.

M-3

Abs Jour: Ref Zhur-Biol., 1958, No 16, 72910.

Author : Aleksandrov, F. A.

Inst : Kirovskiy State Pedogogical Institute

Title : Results of Variety Testing with Corn in 1955.

Orig Pub: Uch. zap. Kirovskiy gos. ped. in-t, 1955, vyp. 9,

190-193.

Abstract: In 1955, 20 varieties of corn were tested at the botanic garden of the Kirovskiy Pedagogical Institute. The varieties "Lesozavodskaya-1", hybrid "Bezenchukskaya X Partizanka", "Partisanka" and "DZh" (with violet grains) gave the best results. These varieties are valuable because they give ma-

ture seeds before the first autumn frosts. -- G.

N. Chernov,

Card 1/1

29

				<b>36</b>
	ALEKSANDROV, F. A.	2		
	The Role of Buds in Restoring Active Life of Apple Prost; Dokl. AN SSSR, 59, No.5, 1948	Trees Damage	d by	
945	Gor'kiy Pedagogical Inst.			
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### ALEKSANDROV, F.A. Method for determining the germinating power of seeds. Est.v shkole no.1:80-81 Ja-F '56. (MLRA 9:5) 1. Kirovskiy pedagogicheskiy institut imeni V.I. Lenina. (Germination)

### ALEKSANDROV, F.A. Species of endemic flora in the environs of Kirov. Bot.zhur. 44 no.10:1490-1491 0 '59. (MIRA 13:4) 1. Kirovskiy pedagogicheskiy institut. (Kirov region---Vetchling) (Kirov region---Cinquefoil)

# ALEKSANDROV, F.A. New plant species in Kirov Province, Bot. zhur. 46 no.11:1700-1701 N '61. (MIRA 15:2) 1. Kirovskiy pedagogicheskiy institut. (Kirov Province--Plant introduction)

# ALEKSANDROV, F.A. Kirov Botanical Garden; 1912-1962. Biul. Glav. bot. sada no.50:107108 '63. 1. Botanicheskiy sad Kirovskogo gosudarstvennogo pedagogieheskogo instituta imeni Lenina, Kirov (oblastnoy).

# ALEKSANDROV, F.A.

Effect of gibberellin on the growth and yield of common meadow mushrooms (Agarious competeris). Bot. zhur. 49 no.781056-1057 Jl 164 (MIRA 1788)

1. Kirovskiy pedagogioheskiy institut, Kirov chlastnoy.

ALEKSANDROV, F.A.; VIKHREV, S.D. Leningrad); MALEYEVA, O.F.

Review and bibliography. Rast. res. 1 no.22284-287 '65.

(MIRA 18:11)

1. Obshchestvo okhrany prirody, Kirov (for Aleksandrov).

2. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad (for Maleyeva).

KURAKIN, P.G.; PAULIN, B.A.; ALEKSANDROV, F.D.; PASHCHINSHAYA, G.N., redaktor;

MATISSEN, Z.M., tekhnicheskiy redaktor

[The production of stationery goods in printing plants] Proizvodstvo pischebumazhnykh izdelii v poligraficheskoi promyshlennosti. Moskva, Gos. izd-vo "Iskusstvo." 1956. 214 p. (MLRA 9:9)

(Stationery) (Printing industry)

L 08994-67

ACC NR: AP6012117

SOURCE CODE: UR/0413/66/000/007/0028/0028

AUTHOR: Aloksandrov, F. I.

12

ORG: none

TITLE: Full-wave de converter. Class 21, No. 18024/ [announced by Scientific Research Institute of Urban and Rural Telephone Communications (Nauchnoissledovatel'skiy institut geredskey i sel'skey telefonney svyazi)

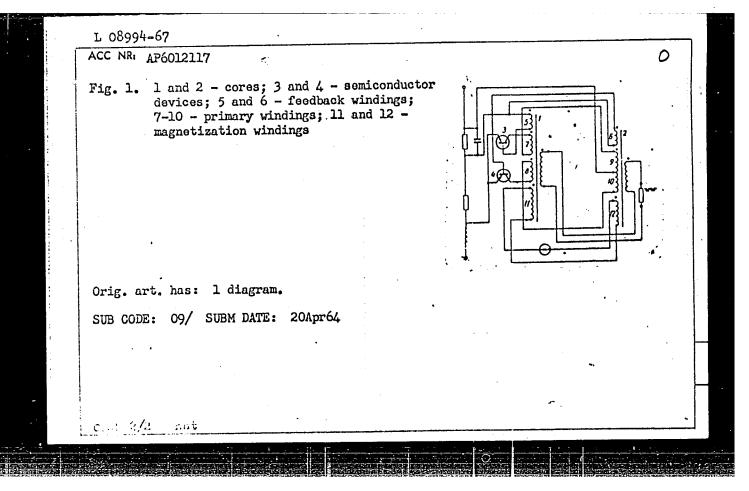
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 28

TOPIC TACS: semiconductor rectifier, saturation magnetization

ARSTRACT: This Author Cortificate presents a full-wave converter of direct voltage into alternating square wave form. The converter contains two magnetizable saturable transformer cores and semiconductor devices operating in the switching mode and controlled with a feedback winding. The primary and magnetization windings of each core are connected in series as a half-wave magnetic amplifier without feedback. To improve the dynamic characteristics of the output frequency control in the induced core magnetization mode, each of the feedback windings controlling the corresponding semiconductor device is placed on that core in which (for the open state of this semiconductor device) the ampere-turns of the primary and magnetization windings are matched in direction (see Fig. 1).

Card 1/2

UDC: 621.314.572

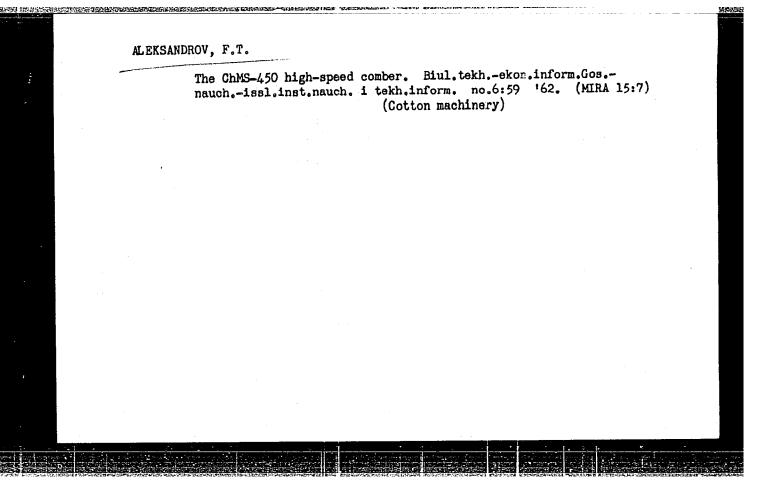


ALEKSANDROV, F.T., starshiy nauchnyy sotrudnik; KRYLOV, V.V., kand.tekhn.nauk

Cap-type carding machine with a production capacity of 15 kg. per hour. Tekst. prom. 18 no.6:17-19 Je '58.

(Carding machines)

(Carding machines)



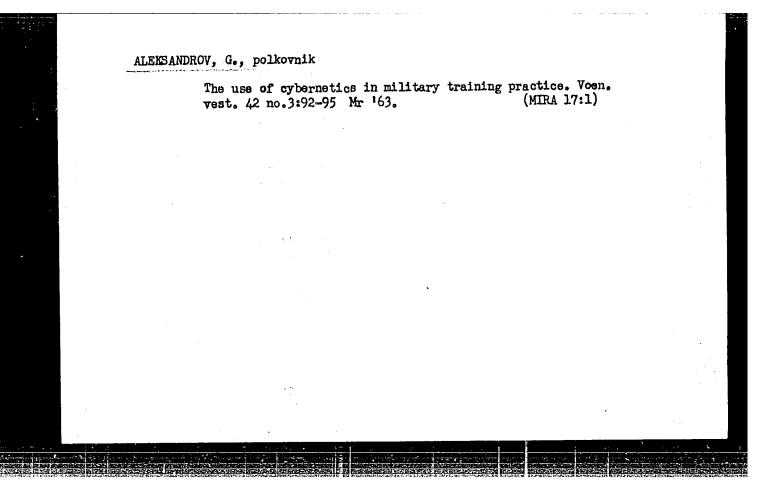
VASIL'YEVA, A.I.; GIJMOV, A.I.; KHLONINA, N.P.; KOSTINA, T.N.;

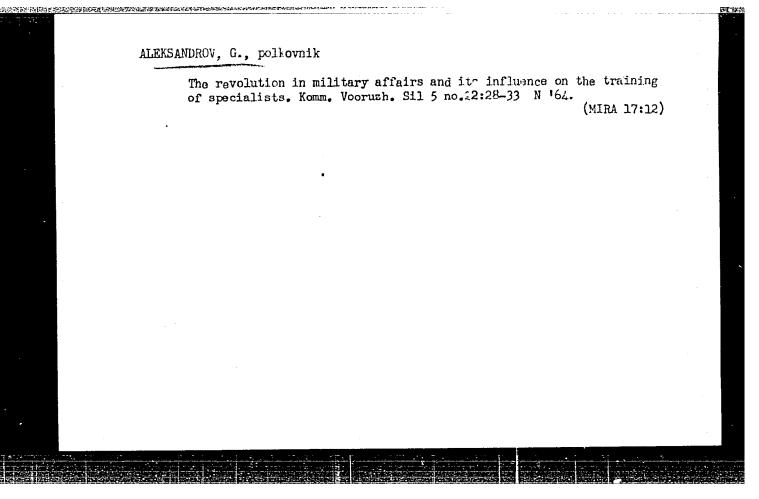
ALEKSANDROV, F.T., starshiy nauchnyy sotrudnik, Laureat Gosudarstvennoy premii

The new factories should be equipped with high-capacity carding machines. Tekst.prom. 22 no.4:27-29 Ap '62 (MIRA 15:6)

1. Glavnyy inzhener Cheboksarskogo khlopchatobumazhnogo kombinata (for Vasil'yeva). 2.Nachal'nik novostroyashcheysya pryadil'noy fabriki No.3 Cheboksarskogo khlopchatobumazhnogo kombinata (for Glumov). 3.Nachal'nik chesal'ndgo tsekha novostroyashcheysya pryadil'noy fabriki No.3 Cheboksarskogo khlopchatobumazhnogo kombinata (for Khlonina). 4.Nachal'nik proizvodstvennoy nauchnoissledovatel'skoy laboratorii Cheboksarskogo khlopchatobumazhnogo kombinata (for Kostina). 5.Vsesoyuznyy nauchno-issledovatel'skiy institut legkogo i tekstil'nogo mashinostroyeniya (VNILTekmash) (for Aleksandrov).

(Carding machines)



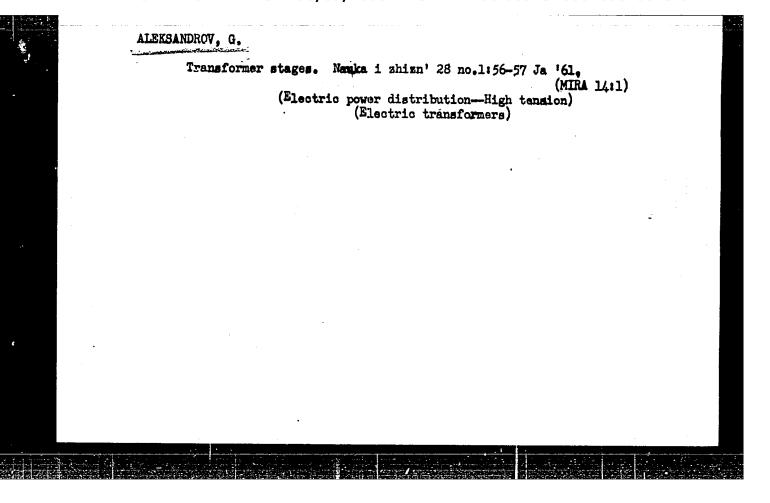


ALEKSANDROV, G.

Machine-Tractor Stations

Organizational and technological instructions for effecting tractor work in the mechine-tractor stations. MTS 12 no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, September 1952 1967, Uncl.

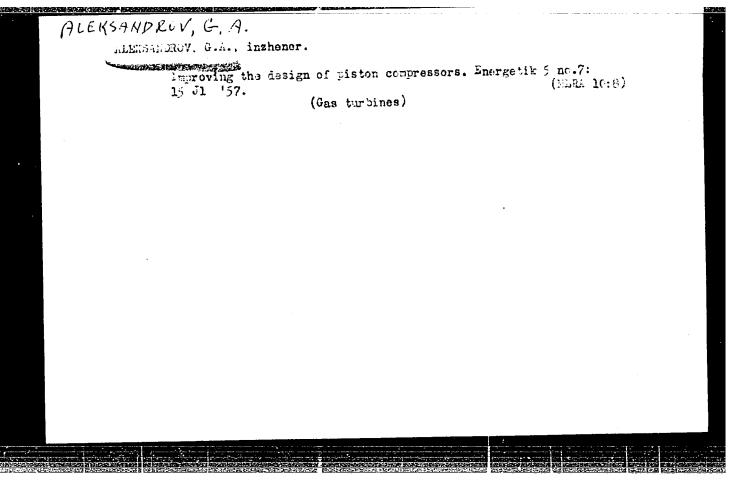


# ALEKSANDROV, G. Large-block and large-panel construction in the Kuban. Na stroi. Ros. no.3:31-33 Mr '61. 1. Zamestitel' predsedatelya Krasnodarskogo sovnarkhoza. (Kuban—Precast concrete construction)

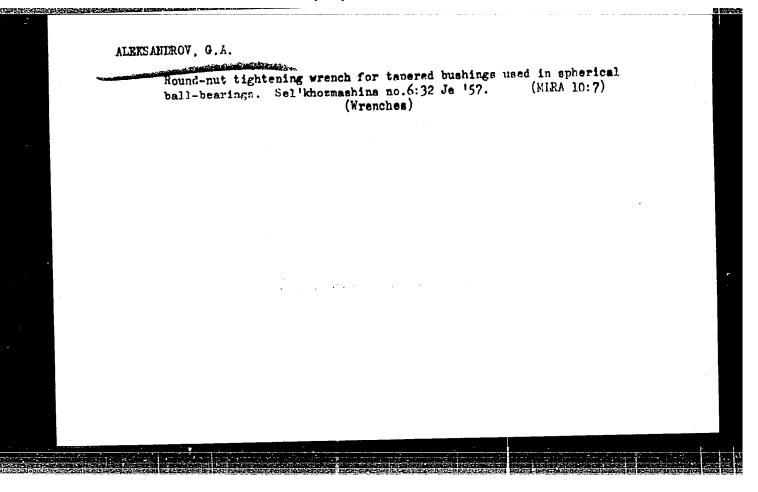
ALEKSANDROV, G. [Aleksandrov, H.]

Motion pictures disseminate innovations. Nauka i zhyttia 12 no.4:28 Ap '62. (MIRA 15:8)

1. Direktor Kiyevskoy kinostudii nauchno-populyarnykh fil'mov. (Motion pictures, Documentary)



ALEKSANDROV	, G. A.		of the	"Some Remarks on the Problems Cand Geog Sci G.A. Aleksandrov of Hydromet Service, Armenian of Meteorol i Gidrol" No 12, pp  Meteorol i Gidrol No 12, pp  Mattes that perusals of "Meteory and "Izvestiya Vsesoyuzi giya" and "Izvestiya Vsesoyuzi ghahestva" show that climat
			the national ecexpedient in prof climatology.	USSR/Meteorology - Climatology, "Some Remarks on the Problems of Climatology, "Some Remarks on the Problems of Climatology, Cand Geog Sci G.A. Aleksandrov, Yerevan Admin of Hydromet Service, Armenian SSR of Hydromet Service, Armenian SSR "Meteorol i Gidrol" No 12, pp 16-19 "Meteorol i Gidrol" No 12, pp 16-19 States that perusals of "Meteorologiya i Gids States that perusals of company of the company of t
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			Suggests solution	on the Problems of Clima G.A. Aleksandrov, Yereva grvice, Armenian SSR ddrol" No 12, pp 16-19 drusals of "Meteorologiya vestiya Vsesoyuznogo Geok show that climatologists
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ALEKSANDYOV, G. A.
Radionhysics

Dissertation: "Methods for Measuring Fluctuating Noises." Land Tech Sci,
Moscow Electrical Engineering Inst of Corrunt ations, 8 Apr 54. (Vechernyaya
Moskva Moscow, 29 Mar 54)

SO: SIM 213, 20 Sep 1954

### CIA-RDP86-00513R000100820013-6 "APPROVED FOR RELEASE: 06/05/2000

ALEKSAILDROV, G.A.

SOV/106-58-6-3/13 AUTHORS:

Khlytchiyev, S.M., Aleksandrov, G.A., Doort, Yu.H. and

Smagin, I.I.

TITLE: (The Path of) Automation of Racio-reception Centers

(Puti avtomatizatsii radiopriyemnykh tsentrov)

PERIODICAL: Elektrosvyaz', 1958, Nr 6, pp 13 - 20 (USSR) ABSTRACT:

The article is published as a basis for discussion and readers are invited to comment on the problems raised in Methods of automation which are applicable to productive processes cannot be mechanically applied to communications, but some of the concepts and solutions can undoubtedly be used to improve the stability, capacity and efficiency of communication links, particularly short-

wave radio links.

Classification of the Principles of Automatic Radio-

reception Centres:

Radio-receivers can be classified according to the geographical location of the basic equipment groups radio-reception centre and the radio office. The antennae must be placed in an area relatively free from industrial Geographical separation of the terminal equipnoise.

ment from the antennae and the head amplifiers is Čard 1/8

SOV/106-58-6-3/13

(The Path of) Automation of Radio-reception Centers

considered undesirable for the following reasons:

1) Extra equipment is required to link the receiver head and the radio office.

2) Maintenance personnel are still required outside the radio office.

3) Concentration of the equipment in towns is undesirable and re-equipping of the radio office would be necessary. Thus, the traditional separation of the reception centre and the radio office is considered most suitable. This is assumed in all the schemes discussed in the article and it is also assumed that the equipment necessary for automatisation is located at the radio-reception centre. Automatic radio-reception centres can work in three ways: Remote control from a control desk located in either the radio centre or in the radio office; b) By programmed control. The controlling apparatus performs all the necessary operations in accordance with a previously planned programme; c) Operation with automatic program-The controlling apparatus computes its own

programming to meet the demands of the correspondents. Card 2/8

Centre with Remote Control: With remote control from a control desk, it is necessary to control a variety of operations, such as switching in and out of receivers, tuning of receivers, switching of antennae, of terminal equipment, etc. It is also necessary to check that the required operations have been performed. The general block diagram of a remote control system is shown in Figure 1. Here ACY is the control signal trans- $\Pi$ CY is the control signal receiver;  $N_1$ ,  $N_2$ :  $\dots$ ,  $\mathbb{N}$ ) are the control executive members. Full lines show the control signal paths, and the dotted lines show the path of signals confirming the operations. Specific systems can be divided according to the type of executive members used, by the method of confirming fulfilment of the operations, by the form of the control signals and by the method of transmission (Refs 1, 2). Centres with Programmed Control: The classification and terminology given in Ref 5 are used in this article. Automatic systems are divided into three groups: 1) Systems of automatic "hard" control; Card 3/8

2) Systems of automatic regulation; 3) Self-changing or self-regulating systems. Analysis of oprational data of the Ministry of Communications radio-reception centres show that: a) The wave timetable to each correspondent is given monthly and is not changed over the given priod; b) Over a period of 24 hours, the given waves are changed in accordance with a programme, corrected by the operator to correspond to the factual propagation conditions over the given route. Quite a large deviation in changeover time (up to several hours) often occurs; c) The manner of working and speed is given quarterly and is not changed over the quarter; d) The antennae are tied to the correspondent but can in some cases be changed; e) During operation, the receiver is frequency-trimmed by the duty technician whenever the signal quality worsens or when requested to do so from the radio office. From the above, control of the majority of the operations is possible on the basis of a "hard" programmed automatic control sequence. For this, controlling apparatus, to switch in the executive members, a memory, to store the Card 4/8 programme and a decoder, to produce the control signals as

required by the programme, are necessary. Facilities for fulfilling special requirements, as they occur, are also necessary. By introducing limited logical circuits, automatic control can, to some extent, replace the judgment of human operators. The presence of arithmetical apparatus in the controlling machine significantly widens its possities; makes it more universal and reduces the size of deficiency of the "hard" automatic control system is that to preserve optimum quality of the signal, the programme must be adjusted from the radio office whenever the propagation conditions change. To overcome this deficiency, self-trolling machines are most suitable.

In the self-regulating system, there is extra equipment Y2 (Figure 3) as well as the basic controlling apparatus Y1.

Y<sub>2</sub> receives signal data from the receiver output, transmitter frequency data, receiver tuning data, information from the radio office, etc. and evaluates the signal quality from Card 5/8

this data. It then acts upon  $Y_1$  to maintain the optimum signal quality. Radio-reception Centres with Automatic Programming: Statistical data, characterising the features of each radio link, can be accumulated in the memory. The controlling apparatus itself can then use this data to introduce corrections into both the wave timetable and into other parts of the programme and, furthermore, it can devise a new programme to meet the requirements of an originating correspondent, i.e. the reception centre would have automatic programming facilities. Such a centre would search for the calling correspondent and then switch to directive working. Search receivers would find the correspondent's carrier frequency. On the basis of the correspondents data and analysis of the incoming signal, the controlling apparatus selects a free receiver and adjusts the equipment to suit the modulation, the nature of the work, the frequency, etc. and when ready, sends a ready signal to the transmitting station through the radio office. Automatic programming, however, requires not only new and very complicated equipment but Card 6/8 re-organisation of the methods of radio communication.

Thus, it is a long-term problem.

Conclusions: Radio-reception centres with programmed control are a more immediate task and such centres can be introduced gradually by replacement of existing centres or by re-equipment. A number of associated problems then arise due to: 1) Some types of existing equipment are not suitable for automatisation; 2) Prototypes, and in some cases, even the design principles of instruments for objective measurement of the radio signal quality have not been developed; 3) Measuring instruments constructed to meet the requirements of computing electronic machines are not available; 4) Sufficient experience in the design of self-tuning and self-regulating systems has not yet accrued.

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SOV/106-58-6-3/13

(The Path of) Automation of Radio-reception Centers

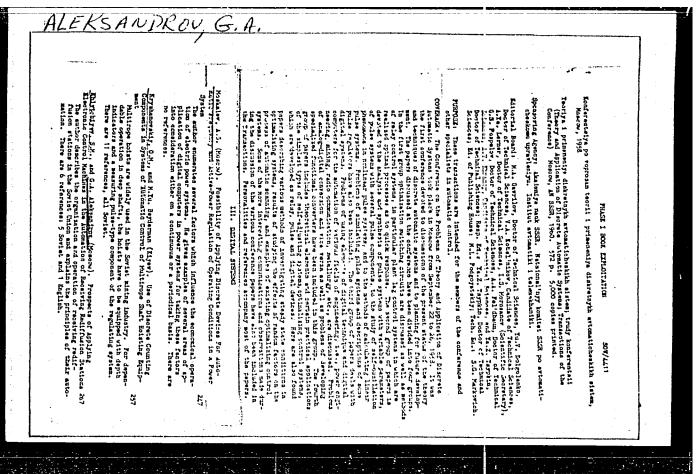
There are 4 figures and 6 references, 5 of which are Soviet and 1 English.

SUBMITTED:

August 12, 1957

1. Communication systems—USSR 2. Radio stations—Control systems 3. Noise (Radio)—Measurement 4. Personnel

Card 8/8



ALEKSANDROV, G. A.

ALEKSANDROV, G. A.: "Investigation of the process of formation of interference bands on glass from solutions of the ethyl ethers of orthosilicic and orthotitanic acids." State Order of Lenin Optical Inst imeni S. I. Vavilov. Moscow, 1956. (DISSERTATION For the Degree of Candidate in CHEMICAL SCIENCES.)

So: Knizhnaya letopis, No. 24, 1956

HEKSANDROV, E.A.

AUTHOR:

Aleksandrov, G. A.

51-3-2/14

TITLE:

Calculation and Interpretation of Vibrational Spectra of Cyclohexane and Certain of its Deutero-derivatives. (Raschet i interpretatsiya kolebatel'nykh spektrov tsiklogeksana i nekotorykh ego deyterozameshchennykh.)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.III, Nr.3, pp.202-210. (USSR)

ABSTRACT:

The first calculations of vibrational spectra of cyclohexane were carried out by Beckett et al. (Ref.9). Later Larnaudie (Ref. 10 & 11) gave a fuller calculation and interpretation of vibrational spectra for this The present paper repeats these calculations with inclusion of the data available for deutero-Calculation of the normal derivatives of cyclohexane. frequencies was carried out by the method of El'yashevich' 54 coordinates were introduced and Stepanov (Ref.13). for changes of bond lengths and valence angles. following values were taken from Ref.9; C-C = 1.54 A, C-H = 1.09 A, angles HCH, HCC, CCC all equal to 109028

Card 1/3

(tetrahedral). Unharmonicity of vibrations was accounted

Calculation and Interpretation of Vibrational Spectra of Cyclohexane and Certain of its Deutero-derivatives. 51-3-2/14

for by the use of "spectroscopic masses" for H and D. Force constants were calculated using the variational method of Stepanov (Ref.13). 1485 force constants were found (some of them are given in Table 1). Due to molecular symmetry this number was reduced to 450. Certain of these force constants can be neglected for various reasons. This reduced the number of non-zero force constants to 21. The system of force constants given in Ref. 16 was used as a zero-order approximation in the present calculations. Table 2 gives frequencies and interpretations of vibrational spectra of cyclohexane  $(C_6H_{12})$  deuterocyclohexane  $(C_6D_{12})$  and monodeuterocyclohexane (C<sub>6</sub>H<sub>1</sub>D). The agreement between calculated and observed frequencies is good. The maximum error is and the average error is about 1.5 cm-1. The calculations confirm the interpretation of cyclohexane spectra given in Ref.9, but not that of Larnaudie (Refs. 10 & 11). The authors propose to use later the system

Card 2/3

Calculation and Interpretation of Vibrational Spectra of Cyclohexane and Certain of its Deutero-derivatives.

of force constants given in this paper for calculation of vibrational spectra of other derivatives of cyclohexane. There is 1 figure, 2 tables and 18 references, 7 of which are Slavic.

ASSOCIATION: Murom State Pedagogical Insitutue. (Muromskiy gosudarstvennyy pedagogicheskiy institut.)

SUBMITTED: January 17, 1957.

AVAILABLE: Library of Congress

Card 3/3

AUTHOR:

Aleksandrov, G.A.

501/51-5-2-5/26

TITLE:

Calculation and Interpretation of Vibrational Spectra of

Methylcyclohexane and Ethylcyclohexane (Raschet i interpretatsiya kolebatel nykh spoktrov metiltsiklogeksana i etiltsiklogeksana)

PERIODICAL:

Optika i Spektroskopiya, 1958, Vol 5, Nr 2, pp 128-133 (USSR)

ABSTRACT:

The paper gives results of a theoretical calculation of vibrational frequencies for methylcyclohexane (C7H14, structure shown in Fig 1) and ethylcyclohexane ( $C_8H_{16}$ , structure shown in Fig 2) obtained using the Yel'yashevich and Stepanov method (Ref 4). Values of the geometrical parameters which give the equilibrium configuration of the two molecules were taken from Ref 5. To find the vibration frequencies of

methylcyclohexane and ethylcyclohexane the author used potential energy constants found earlier, given in Ref 5 for cyclohexane and in Refs 4, 7

for ethane and propane. The values of the constants of interaction of methyl and ethyl groups with the ring were taken from Ref 6. calculated results are compared with experimental infrared and

Raman spectra (Table 1). The experimental values were taken from

Card 1/2

SOV/51-5-2-5/26

Calculation and Interpretation of Vibrational Spectra of Methylcyclohexane and Ethylcyclohaxane

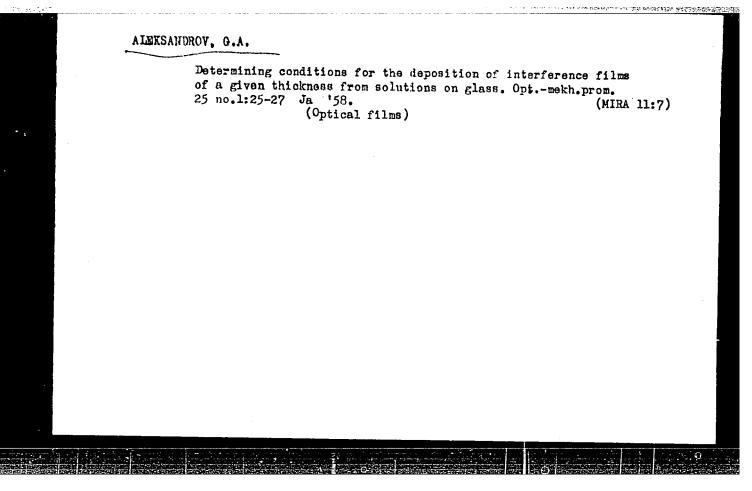
> Refs 1-3. Table 1 gives also the interpretation of the spectra of  $C_7H_{14}$  and  $C_8H_{16}$ . The agreement between the calculated and observed frequencies for C7H14 is good. The maximum absolute error is 42 cm<sup>-1</sup> while the mean absolute error is 12 cm<sup>-1</sup>. The interpretation of the C8H16 spectra is difficult because of the occurrence of is omers, but the agreement between the calculated and experimental values is satisfactory. There are 1 table, 2 figures and 7 references, 4 of which are Soviet, 2 American and 1 translation of a Western work into Russian.

ASSOCIATION: Muromskiy gosudarstvennyy pedagogicheskiy institut (Murom Pedagogical Institute)

SURLITTED: July 2, 1957

1. Cyclohexanes--Spectrographic analysis 2. Molecules--Vibration Card 2/2

3. Infrared spectra--Applications 4. Raman spectrs--Applications



ALEKSANDROV, G.A.; DORRER, I.A.; MALOCHINSKIY, O.M.; KHLYTCHIYEV, S.M.;

CHISTYAKOV, N.I.; SHUL'GIN, K.A.; VENGREMYUK, L.I., red.;

MARKOCH, K.G., tekhn. red.

[Radio communications and broadcasting] Radiosviaz' i veshohanic. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 503 p.

(Radio—Receivers and reception)

(Radio—Transmitters and transmission)

PROPERTY OF THE PARTY

Production of phthalic anhydrid. Biul.tekheko issl.inst.nauch.i tekh.inform. 18 no.429-10 Ap				rz.Cos.nauch
		·	4. 24	(MIRA 18:6)
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PALSHKOV, Vitaliy Vladimiravich; ALEKSANDROV, G.A., dote., etv. red.; VENGRENYUK, L.I., red.

[Radio receiving systems] Radiopriemnye ustroistva. Moskva, Sviazi, 1965. 542 p. (MIRA 18:8)

ALEKSANDROV, Grigoriy Fedorovich; KLYUCHNIKOVA, N.I., redaktor; GILENSON, P.T., teknnicheskiy redaktor

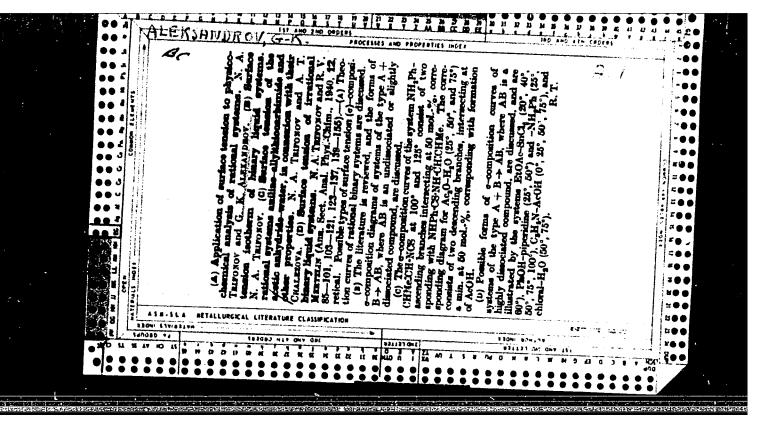
[Organization of slaughterhouses] Organizatsiia skotouboinykh punktov i boenskikh ploshchadok. Moskva, Izd-vo tekhn. i ekon. lit-ry po voprosam zagotovok, 1954. 78 p. (MIRA 8:6) (Slaughtering and slaughterhouses)

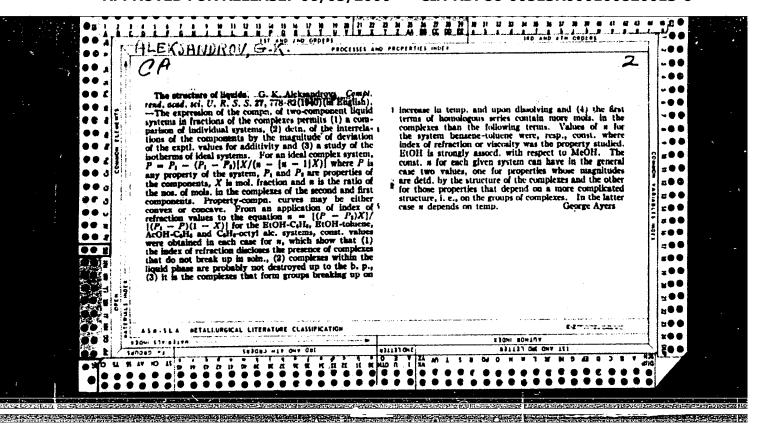
ALEKSANDROV, G.G.; LARIONOV, O.G.; CHMUTOV, K.V.

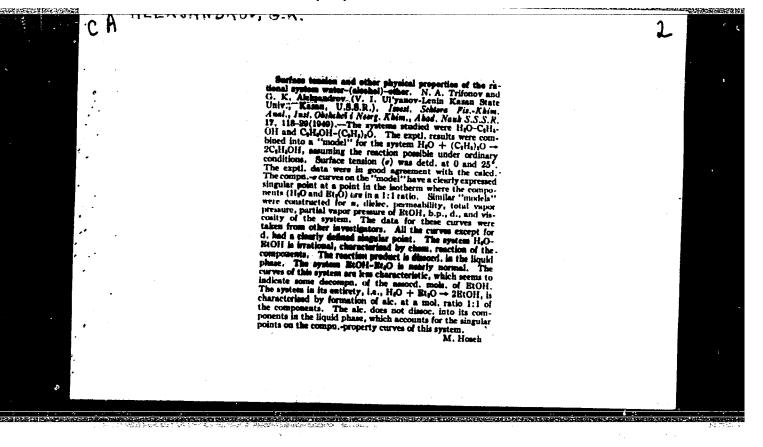
Device for studying the kinetics of adsorption from liquid mixtures on crystalline zeolites. Zhur. fiz. khim. 39 no.4: 1034-1035 Ap '65. (MIRA 19:1)

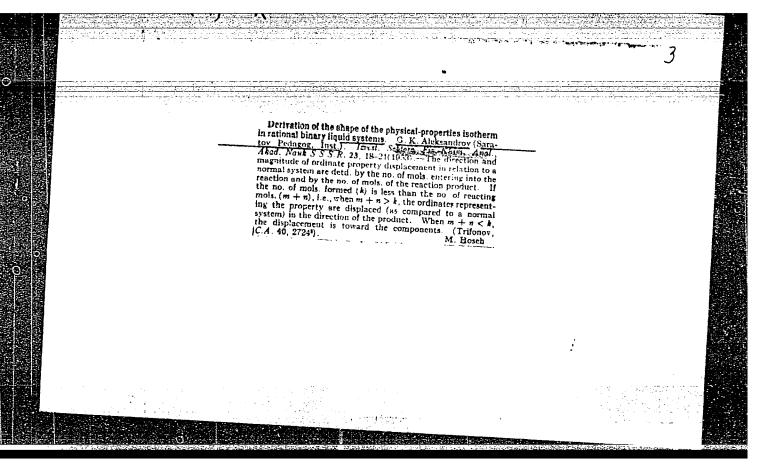
1. Institut fizicheskoy khimii AN SSSR. Submitted Aug. 22, 1964.

Experience in active detection of glaucoma in a garrison. Voca.-med. zhur. no.10x68-69 '64. (MIRA 18x5)









ALEKSANDEOV, G. A.h.

Н

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 9828

Author Aleksandrov, G. M.

Inst : Not given Title : Physical 6

Title : Physical Conditions for the Appearance of a Corona Dischar-

Orig Pub : Zh. tekhn. fizika, 1956, 26, No 8, 1769-1781

Abstract: The author reports results of measurement of the initial corona voltages at ac in cylinders 200 and 30 cm in diameter at various diameters of the corona-forming conductor (from 1.5 graph and an amplifier, so that it became possible to observe current flashes with amplitudes of 5 -- 10 microamperes. It is established that in a smooth increase in the voltage, for both half cycles of the voltage. In the smaller cylinder,

Card : 1/2

USSR / Electronics.

H

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 9828

Abstract : the corona occurs first at the megative half cycle of voltage, and in order to start the corona in the positive half cycle a somewhat greater voltage is necessary. A detailed analysis is made of the mechanism of the production of cascades in positive and negative corona discharges and from this analysis the author obtains theoretically the conditions for a stationary discharge with positively and negatively charged conductors. The theoretical conclusions permit the author to estimate the conditions under which corona discharge will occur in case of ac and to explain the experimental results. It is shown that the striking of the corona in the positive half cycle of voltage depends on whether negative ions remain in the discharge gap from the preceding negative half cycle. Bibliography, 26 titles.

Card. : 2/2

Cand Med Sci

ALEKSANDROV, G. M.

Dissertation: "Certain Data on the Content of Caecum During Appendicitis from the Viewpoint of the Alimentary Theory of Pathogenesis."

Moscow Medical Inst, Ministry of Health

RSFSR

SO Vecheryaya Moskva Sum 71

TLEKSANDOV, C.M.

# ALEKSANDROV, G. M.

Modern therapy of varicose ulcers. Fel'dsher & Akush. No. 12, Dec. 50. p. 17-9

1. Candidate Medical Sciences

OLML 20, 3, March 1951

- 1. ALEKSANDROV, G. M.
- 2. &SSR (600)
- 4. Mesentery Surgery
- 7. Hemostatic suture. Khirurgiia no. 10, 1952.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

- 1. ALEKSANDROV, G. M.
- 2. USSR (600)
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- 7. Rib fractures. Fel'd. i akush. No. 10, 1952.

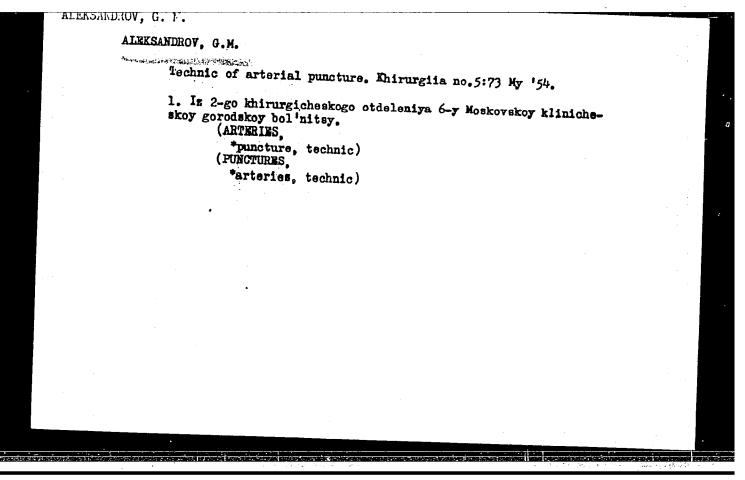
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

- 1. ALEKSANDROV, G. M.
- 2. USSR (600)
- 4. Ligaments
- 7. Pulled ligaments. Fel'd i akush. no. 11 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

- 1. ALEKSANDROV, G. M.
- 2. USSR (600)
- 4. Abdomen-Diseases
- 7. Case of a non-parasitic cyst in the abdominal cavity. Vest.khir. 72 no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.



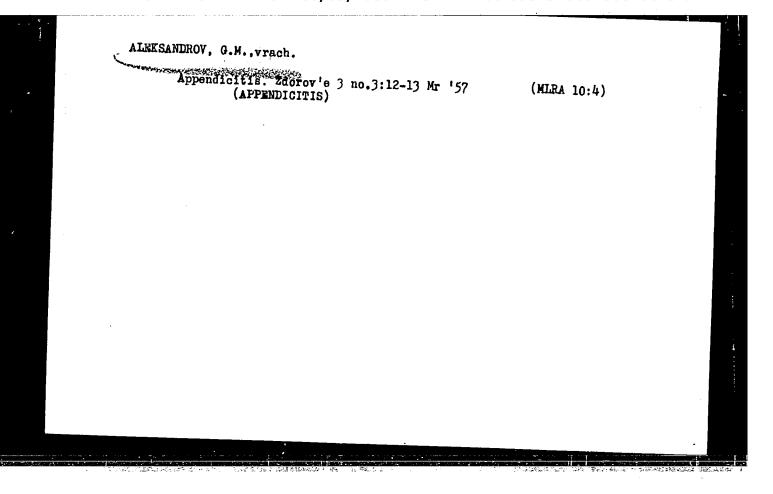
ALEKSANDROV. Georgiy Mikhaylovich; SHIBATEV, N.A., redaktor; GLUKHOTEDOVA.

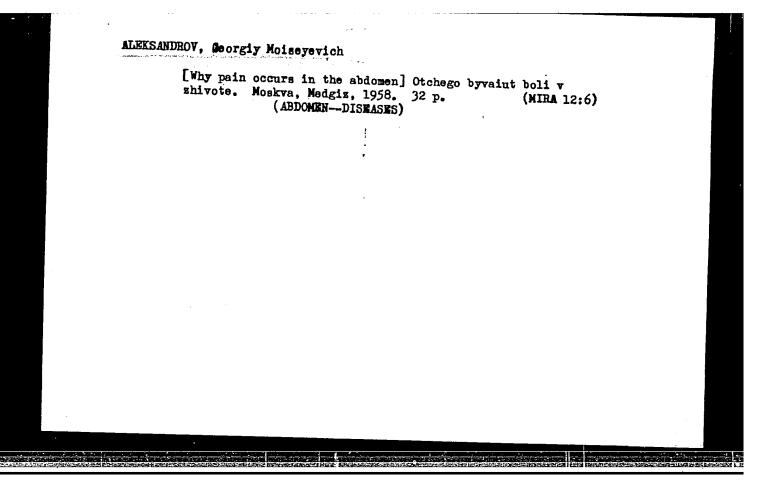
G.A., teknnicheskiy redaktor

[They are brought back to life] Oni voxvrashchaiutsia k shizni.

Moskva, Gos.izd-vo meditsinskoi lit-ry, 1955. 26 p. (MIRA 9:1)

(Death, Apparent)





L 46032-66 EWT(1)

ACC NR: AR6013637

SOURCE CODE: UR/0058/65/000/010/G034/G034

AUTHOR: Aleksandrov, G. N.; Ivanov, V. L.

HB B

REF SOURCE: Sb. Proboy dielektrikov i poluprovodnikov. M.-L., Energiya, 1964, 39-44

TITLE: Discharge characteristics in long air gaps under the influence of damped oscillating voltage

SOURCE: Ref. zh. Fizika, Abs. 10G237

TOPIC TAGS: voltage stabilization, electric discharge , FLECTRIC PARC

TRANSLATION: The results of a study of electrical strength of air gaps between electrodes of the types: rod-plane, rod-rod and wire-plane under the influence of damped oscillating voltage pulses (with a frequency of 50-125 cycles/sec and a maximum of 1.25 Mv) are presented. In the course of the initial increase in voltage, the rise time ranged between 2000 and 4500 µsec. A considerable scattering in breakdown voltages is observed for voltage pulses with a slow rise time, when applied to gaps of the first two types and with a length greater than 2 m. Arcing across these gaps took place on the leading edge of the pulse long before it reached its maximum. The magnitudes of voltages which brought about arcing are subject to a considerable statistical scattering. In the shorter gaps the streamers which feed the leader terminal reached the opposite electrode. In the longer gaps, the leader terminal is fed by streamers

**Card 1/2** 

strength is	consider	ably less	lischarge gap; the result be, with a wire length of when slow rising voltage a considerable length of	F 300 m, t	he scatter	الأساف المستحددة
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ACCESSION NR: AP4018367

5/0120/64/000/001/0069/0075

AUTHOR: Aleksandrov, G. M.; Zaymidoroga, O. A.; Kulyukin, M. M.; Peshkov, V. P.; Sulyayev, R. M.; Filippov, A. I.; Tsupko-Sitnikov, V. M.; Shcherbakov, Yu. A.

TITLE: Use of helium-3 for filling a high-pressure diffusion chamber

SOURCE: Pribory\* i tekhnika eksperimenta, no. 1, 1964, 69-75

TOPIC TAGS: diffusion chamber, helium-3 tritium separation, high pressure diffusion chamber, synchrocyclotron, OIYaI synchrocyclotron, high purity helium-3

ABSTRACT: A method of highly purifying helium-3 from tritium (II<sup>3</sup>/He<sup>3</sup> < 10<sup>-13</sup>) is described. Helium-3 condensation with subsequent evaporation at 1.2 K was used. The cycle was repeated 4 times; a small amount of H. (about 0.005%) was added prior to every liquefaction. The source gas contained 0.1% of H<sup>3</sup> and 0.5-1% of D, N, O, and A. The final elimination of H<sub>2</sub> was attained by burning it with comper oxide heated to 500C. The internal parts of the DK-2 standard diffusion chamber (see M. S. Kozodayev, et al., PTE, 1958, no. 6, p. 47) were remedeled; its volume, about 11 lit., was filled with helium-3 up to 20 atm; equipment and

Card 1/2

ACCESSION NR: AP4018367

filling details are given. The chamber was in continuous (500 hrs) operation with the OIYaI synchrocyclotron. It can be filled within 5 hrs. Gas loss at each exposure has been 0.1% or less. "The authors are deeply grateful to P. L. Kapitsa for his permission to separate He³ from T in IFP AN SSSR, and to V. M. Kuznetsov and A. I. Filimonov for lending the equipment and their help in determining T concentrations. We are also thankful to V. P. Dzhelepov and L. I. Lapidus for their interest in the project, and to K. A. Baycher and S. F. Maly\*sheva for their help in building the outfit. Mounting was performed by A. G. Zhukov, P. Ye. Laykov, N. V. Lebedev, V. I. Orekhov, V. F. Poyenko, A. G. Potekhin, and A. I. Chernetskiy, for which we thank them. We would particularly like to acknowledge the discussions as well as the active help of B. Pontecorvo throughout the project stages." Orig. art. has: 4 figures.

ASSOCIATION: Ob"yedinenny\*y institut yaderny\*kh issledovaniy (Joint Institute of Nuclear Studies)

SUBMITTED: 23Feb63

DATE ACQ: 18Mar64

ENCL: 00

SUB CODE: NS

NO REF SOV: 006

OTHER: 005

Card 2/2

ALEKSANDROV, G.N. (Georgiy Nikolayevich)

"Evolution of the Arch of the Human Foot, and Problems of Flat-Footedness," (Dissertation) Academic degree of Doctor in Medical Sciences, based on his defense, 23 February 1954, in the Council of the Kazakh Stata Medical Inst. im. Molotov.

Samarkand State Medical Inst. im. Academician I.P. Pavlov.

KL, No.29, 1955 M-m-3, 054, 778, 2 out 50

KARLENKO, P.N. (Samarkand, ul. Traktornaya, d.20); ALEKSANDROV, G.N.; BORUKHOV, S.A.

Comparative data on the histological structure of the aorta, the pulmonary artery and Botallo's duct in fetuses. Grud. khir. 3 no.1:38-43 Ja-F '61. (MIRA 16:5)

1. Iz kliniki obshchey khirurgii (zav. - prof. P.N.Karlenko) i kafedry topograficheskoy anatomii s operatlynoy khirurgiyey (zav. prof. G.N.Aleksandrov) Samarkandskogo meditsinskogo instituta imeni akademika I.P.Pavlova (dir. - dotsent M.A.Mirzamukhamedov).

(FETAL MEMBRANES) (DUCTUS ARTERIOSUS)

ALEKSANDROV, G.N.; DIMANT, I.N., red.; TSAT, A.A., tekhm. red.

[Pathogenesis and conservative treatment of hemmorrhoids]

Patogenez i konservativnos lechenie gemorroia. Tashkent, Gos.

med. izd-vo M-va zdravookhraneniia UzSSR, 1961. 82 p.

(HEMORRHOIDS)

(HEMORRHOIDS)