

ORLOVSKIY, A.G.; AGEYKIN, G.I.; RYABIN, M.O.

Power supply for several hardening treatment apparatus from a single  
generator. Prom.energ. 17 no.2:11-12 F '62. (MIRA 15:3)  
(Electric power supply to apparatus)

RABIN, M.O.; ORLOVSKIY, A.G.

Technology of electric induction heat treatment. Metalloved.  
i term. obr. met. no.6:27-30 Je '63. (MIRA 16:6)

(Steel, Automobile--Heat treatment)  
(Induction heating)

LIPOVSKOY, R.S., kand.tekhn.nauk (g.Dnepropetrovsk); ORLOVSKIY, A.N.  
aspirant (g.Dnepropetrovsk); FRISHMAN, M.A., prof. (g.Dnepropetrovsk)

Crossing frogs and traffic safety. Put' i put.khoz. 5 no.4:40-41  
Ap '61. (MIRA 14:7)

(Railroads--Switches)

FRISHMAN, M.A., prof. (Dnepropetrovsk); SHATERKOV, V.I., dotsent  
(Dnepropetrovsk); VOLOSHKO, Yu.D., dotsent (Dnepropetrovsk);  
ORLOVSKIY, A.N., inzh. (Dnepropetrovsk)

Performance of switches laid on reinforced concrete slabs. Put'  
i put.khoz. 7 no.7:11-12 '63. (MIRA 16:10)

FRISHMAN, M.A., prof. (Dnepropetrovsk); LIPOVSKIY, R.S., dotsent;  
(Dnepropetrovsk); ORLOVSKIY, A.N., inzh. (Dnepropetrovsk)

Obtuse-angled frogs with movable points. Put' 1 put. khoz.  
7 no.10:8 '63. (MIRA 16:12)

FRISHMAN, M.A., doktor tekhn. nauk, prof.; LIPOVSKIY, R.S., kand. tekhn.  
nauk; ORLOVSKIY, A.N., inzh.

New design of obtuse angle frogs with a mobile point. Vest.  
TSNII MPS 22 no.7:10-14 '63. (MIRA 16:12)

1. Dnepropetrovskiy institut inzhenerov zheleznodorozhnogo  
transporta.

FRISHMAN, M.A., doktor tekhn. nauk, prof.; LIPOVSKIY, R.S., kand. tekhn.  
nauk; ORIOVSKIY, A.N., kand. tekhn. nauk

New frogs for high-speed traffic. Vest. TSNII MPS 25 no.1:3-6  
'66. (MIRA 19:2)

ORLOVSKIY, A. S.

PA 48/49T71

Urology/Medicine - Ulcers, Chronic, Mar/Apr 49  
Therapy  
Medicine - Neurosurgery, Sympathectomy

"Direct and Indirect Results of Surgical Treatment of Chronic Ulcers of the Lower Extremities According to Molotov's Neurotomy," A. S. Gilyarskiy, Clinical Dept, Leningrad Neurosurg Inst Inst Prof A. I. Polenov, 6 pp

"Voprosy Neirokhirurgii" Vol XIII, No 2

Many specialized nerves, in carrying out their specialized trophic and pain functions, perform according to the principle of automatic distribution of these nerve branch ends in their  
48/49T71

Urology/Medicine - Ulcers, Chronic, Mar/Apr 49  
Therapy (Contd)

peripheral areas. Dissection of nerve fibers is generally considered simplest method for surgical treatment of ulcers in the extremities. Many experiments have shown that Molotov's neurotomy is best method by far.

48/49T71



L 15558-63

EW(1)/BDS/ES(v)

AFTTC

PS-1/PS-4/PS-4/PS-4

TF

ACCESSION NR: AR3002963

S/0169/63/000/005/DC18/DC18

SOURCE: RZh. Geofizika, Abs. 5D99

71

AUTHOR: Orlovskiy, A. S.; Mal'kanovitskiy, I. M.; Belalovskiy, M. L.

TITLE: Simplified procedures for calculating the gravitational effect of local relief (in the instance of Eastern Central Asia)

CITED SOURCE: Uch. zap. Sredneaz. n.-i. in-t geol. i mineral'n. syr'ya, vyp. 7, 1962, 183-191

TOPIC TAGS: gravitational correction, relief, two-dimensional transparent grid, Young, Barton, Gamburtsev type, parallel profile, Lukavchenko method, quadratic system

ABSTRACT: Ways are examined of simplifying the methods of determining gravitational corrections for this relief of a region, which are reduced to the following: 1) cutting the network of calculation points in sections during the increasing of the radius for calculating the effect of the relief; 2) simplification of the technique of instrumental determination of corrections in a radius up to 100 - 200 m; 3) use of two-dimensional transparent grids (Young, Barton, Gamburtsev type) for

Card 1/2

ORLOVSKIY, A.V., professor; LYUTER, R.A., doktor tekhnicheskikh nauk; KAZOVSKIY, Ye.Ya., kandidat tekhnicheskikh nauk; YAKOBSON, El'mar, inzhener; ANTOPOL'SKIY, V.M., inzhener; FUKHOV, G.Ye., doktor tekhnicheskikh nauk; FYUBSTENBERIN, A.I., inzhener; BEKHOER, A.Ya., professor (Leningrad); TSVERAVA, G.K., inzhener; KRAYNIY, K.I., inzhener (g.Kotovsk, Tambovskoy obl.); BELOV, V.N., inzhener (g.Ul'yanovsk).

Correspondence conference of readers of "Elektrichestvo."      Elektrichestvo  
no.8:89-91 Ag '57.      (MLRA 6:8)

1. Kiyevskiy politekhnicheskij institut (for Orlovskiy).
2. Zavod "Elektrosila" (for Lyuter and Kazovskiy).
3. Estonkommunenergo (for Yakobson).
4. Saratovskiy industrial'nyy tekhnikum (for Antopol'skiy).
5. Tomskiy politekhnicheskij institut imeni Kirova (for Fukhov).
6. Tikhvinskiy glinozemny zavod (for TSverava).      (Electric engineering--Periodicals)

ORLOVSKIY, A.V.

LYULIAYEV, V.K., inzhener; MOVSESOV, N.S., inzhener; ORLOVSKIY, A.V., professor;  
ROZENSHTEYN, L.Ya., inzhener.

Expanding the field of application of an operative alternating current. Elek.  
sta. 24 no.10:44-49 0 '53. (MLRA 6:10)  
(Electric currents, Alternating)

ORLOVSKIY, A.V., professor; CHIZHENKO, I.M., dotsent; NEMIROVSKIY, A.S.,  
YEBENEF.

Use of mercury-arc-rectifier installations to generate wattless  
power. Prom.enorg. 11 no.4:16-21 Ap '56. (MLRA 9:7)

1.Kiyevskiy politekhnicheskiy institut.  
(Electric current rectifiers) (Electric substations)

*ORLOVSKIY A.V.*  
SYROMIATNIKOV, I.A., doktor tekhn. nauk, prof. (Moskva); BUCHIDZE, S.R.,  
kand. tekhn. nauk (Tallin); ORLOVSKIY, A.V., prof.; POSSE, A.V.,  
kand. tekhn. nauk; AKSEL'ROD, M.M., inzh.; GERTSIK, A.K., inzh.;  
GROYS, Ye.S., inzh.; KVYATKOVSKIY, V.M., inzh.

Outlook for d.c. power transmission in the Soviet Union. Elektri-  
chestvo no.2:72-78 F '58. (MIRA 11:2)

1. Chelyabinskiy politekhnicheskiy institut (for Orlovskiy). 2. Nauch-  
no-issledovatel'skiy institut postoyannogo toka (for Posse, Aksel'rod,  
Gertsik, Groys, Kvyatkovskiy).  
(Electric power distribution--Direct current)

AUTHOR: Orlovskiy, A. V., Professor SOV/105-58-9-21/3:

TITLE: Foundations of a Centralized Power System for the European Part of the USSR (Osnovy yedinoy energeticheskoy sistemy yevropeyskoy chasty SSSR)

PERIODICAL: Elektrichestvo, 1958, Nr 9, pp 85 - 86 (USSR)

ABSTRACT: This article is a supplement to a paper by V.I.Veyts, published in Elektrichestvo, 1957, Nr 1. The author points out that Veyts, in his paper as well as in the map scheme shown, only deals with the development of electric power, and with a centralized high-voltage grid, but not with the development of the power system as a whole as mentioned in the title. Under consideration of today's trends, it would be appropriate to start investigations, and plan a centralized power system for the USSR, which would be considered as a totality of power generating plants and transmissions, as, for instance power transmission lines, gas pipe lines, and fuel transports on rails and waterways. Here the question is once more discussed whether it would be more

Card 1/2

Foundations of a Centralized Power System for the  
European Part of the USSR

SOV/165-55-9-21, 34

advantageous to install power plants near the user,  
and to transport the fuel needed, or to transmit  
electric power. It is pointed out that even a rough  
calculation will suffice show that the justification of  
installing one main plant in the Donbas, as it is  
demanded by Veyts, must be doubtful.

Card 2/2

ORLOVSKIY, A.V. (Kiyev); MEL'NIKOV, N.A. (Moskva)

Regulation of voltage in electric power systems and increase in the  
quality of electric power. Elektricheskoye no.2:90-91 F '63.  
(MIRA 16:5)

(Electric power distribution)



YAKUSHA, Georgiy Borisovich; ORLOVSKIY, A.V., prof., otv. red.;  
VELIKOKHAT'KO, A.T., red.

[Technical and economic bases of developing electric power  
production in the economic regions of the Ukrainian S.S.R.]  
Tekhniko-ekonomicheskie osnovy razvitiia elektroenergetiki  
ekonomicheskikh raionov Ukrainskoy SSR. Kiev, Naukova dumka,  
1965. 251 p. (MIRA 18:5)

ORLOVSKIY, B.

New types of industrial buildings. NTO 3 no.12:26-27 D '61.  
(MIRA 15:1)

(Industrial buildings)

ORLOVSKIY, B.; KAZAKOV, A.

Construction of foundations on permafrost soil. Stroitel' 8  
no.6:3-4 Je '62. (MIRA 15:7)  
(Frozen ground) (Foundations)

ORLOVSKIY, B. (Moskva)

Building without skylights. Okhr.truda i sots.strakh. 6  
no.1:20 Ja '63. (MIRA 16:1)  
(Industrial hygiene) (Trade unions)

**ORLOVSKIY, B.V.**

Multiplexing local communication lines. Avtom., tlem. i svyaz'  
no.3:31-34 Nr '57. (MLRA 10:4)

1. Nachal'nik otdela sluzhby signalizatsii i svyazi Donetskoy  
dorogi.

(Telephone)

LAVRETSKIY, L.N., inzh.; ~~ORLOVSKIY, B.Ya.~~, inzh.-arkh.; FINKINSHTEYN,  
B.A., inzh.; EZDRIN, K.B., inzh.; UKRAINCHIK, M.M., inzh.,  
red.

[One-story industrial building with no monitor and with a  
flat roof and a large network of columns]Oдноetazhnoe bes-  
fonatnoe promyshlennoe zdanie s ploskoi krovlei i krupnoraz-  
mernoj setkoi kolonn; iz opyta tresta "Mosstroi-5" Glavmos-  
stroia. Moskva, Gosstroizdat, 1961. 72 p. (MIRA 15:9)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut orga-  
nizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.  
Byuro tekhnicheskoy informatsii. 2. Zamestitel' upravlyayushchego  
trestom "Mosstroy-5" (for Orlovskiy). 3. Starshiy prepodavatel'  
Vsesoyuznogo zaognogo politekhnicheskogo instituta (for  
Finkinshteyn). 4. Rukovoditel' gruppy metodicheskikh kabinetov  
tresta "Mosorgstroy" Glavnogo otdeleniya po zhilishchnomu i  
grazhdanskomu stroitel'stvu v g. Moskve (for Ezdrin).  
(Moscow--Factories--Design and construction)

ORLOVSKIY, ~~Emanuil~~ Il'ich; LEPIN, A.E., red.; LEVONEVSKAYA, L.G.,  
tekh. red.

[Synthetic materials in the manufacture of consumers' goods]  
Sinteticheskie materialy v proizvodstve tovarov shirokogo  
potrebleniia. Leningrad, Lenizdat, 1959. 138 p. (MIRA 13:2)  
(Synthetic products) (Russia--Manufactures)

ORLOVSKIY, Emanuel Il'ich; BORSHCHEVSKAYA, S.I., red.; LEVONEVSKAYA, L.G.,  
tekhn. red.

[Goods with a Leningrad trademark] Tovary s leningradskoi fabrichnoi  
markoi. Leningrad, Lenizdat, 1961. 138 p. (MIRA 14:9)  
(Leningrad—Manufactures)



ORLOVSKIY, Emmanuil Il'ich; BORSHCHEVSKAYA, S.I., red.

[Synthetic products in everyday life; synthetic materials and goods manufactured from them] Sintetika v bytu; sinteticheskie materialy i tovary iz nikh. Leningrad, Lenizdat, 1964. 141 p. (MIRA 18:6)

ORLOVSKIY, E.S.

Problems of the algorithm theory. Trudy Mat. inst. 52:140-171 '58.  
(MIRA 11:7)

(Algorism)

ORLOVSKIY, E.S.

16(1) **PHASE I BOOK EXPLOITATION** SOV/2660

Velesnyuy matematicheskiy s'ezd. 3rd, Moscow, 1956  
Trudy. t. 4: Eretoye soderzhanie sestionnykh dokladov. Doklady  
Izostremyay uchenykh (Transactions of the 3rd All-Union Mathema-  
tical Conference in Moscow. Vol. 4; Summary of Sectional Reports  
Reports of Foreign Scientists) Moscow, Izd-vo AN SSSR, 1959.  
287 p. 2,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskiy Institut.  
Tech. Ed.: G.R. Shchukin; Editorial Board: A.A. Abramov, V.O.  
Boltynskiy, A.M. Vasil'yev, B.V. Medvedev, A.D. Myshkis, S.M.  
Nikol'skiy (Resp. Ed.), A.G. Postnikov, Yu. V. Prochorov, K.A.  
Rybnikov, P. L. Gl'yazov, V.A. Uspenskiy, M.O. Chetayev, O. Ye.  
Smilov, and A.I. Shtrabov.

**PURPOSE:** This book is intended for mathematicians and physicists.

**COVERAGE:** The book is Volume IV of the Transactions of the Third All-  
Union Mathematical Conference, held in June and July 1956. The  
book is divided into two main parts. The first part contains sum-  
maries of the papers presented by Soviet scientists in the con-  
ference that were not included in the first two volumes. The  
second part contains the text of reports submitted to the editor  
by non-Soviet scientists. In those cases when the non-Soviet sci-  
entist did not submit a copy of his paper to the editor, the title  
of the paper is cited and, if the paper was printed in a previous  
volume, reference is made to the appropriate volume. The papers,  
both Soviet and non-Soviet, cover various topics in number theory,  
algebra, differential and integral equations, function theory,  
functional analysis, probability theory, topology, mathematical  
problems of mechanics and physics, computational mathematics,  
mathematical logic and the foundations of mathematics, and the  
history of mathematics.

<u>Zinov, A.A.</u> (Moscow). Remarks in connection with reduction theorems in logical analysis	85
<u>Eli'man, B.A.</u> (Moscow). On material and formal implications of predicates and functions	86
<u>Orlovskiy, E.S.</u> (Leningrad). Rarely algorithmic operators	86
<u>Povarov, O.M.</u> (Moscow). On the symmetry of Boolean functions	87
<u>Aleksikh, B.Ya.</u> (Mikrovskchenak). Incompleteness theorems in systems with infinite induction	89
<u>Chernyavskiy, V.S.</u> (Moscow). On one simplification of normal digitisms	91

Section on Computational Mathematics  
Card 17/ 34

ORLOVSKIY, E.S.

Patent descriptions as sources of scientific and technological  
information. NTI no.6:6-9 '63. (MIRA 17:1)

ORLOVSKIY, E.S.

Changes in the British patent classification and in the system  
of patent publication in Great Britain. NTI no.8:53-55 '64.  
(MIRA 17:12)

ORLOVSKIY, P.P.

Hygiene of milking. Zhivotnovodstvo 20 no.3:76 Mr '58. (MIRA 11:2)

1. Glavnyy vetvrach sovkhoza "Ranenburgskiy," Lipetskoy oblasti.  
(Milking)

ORLOVSKIY, G. M.

IA 10 101

USSR/Electricity - Conductors

Feb 53

"Pressure Joining of Aluminum Bus Bars," Engrs  
L. I. Adrianov, G. M. Orlovskiy

Elek Sta, No 2, pp 26-29

Describes "pressure welding" method for joining aluminum bus-bar sections, developed since 1950 by Planning-Exptl Bureau, "Sevzapelektromontazh" Trust. Bus-bar ends are lapped, clamped between special forms at high pressure, and fused together at points of highest pressure. Use of various manual and hydraulic presses is mentioned.

255T54

ORLOVSKIY, G. M., Cand Agr Sci -- (diss) "Mountain-forest soils of the  
basins of Uda and Barguzin Rivers of <sup>the</sup> BM ASSR and their afforestation  
properties." Bryansk, 1957. 19 pp (Inst of Forestry, Acad Sci USSR),  
150 copies (KL, 17-58, 110)



BORSHCHEV, V.B.; KAMININ, L.B.; LARIONOV, M.G.; LITINSKAYA, L.L.; ORLOVSKIY,  
G.N.; ROKHLIN, F.Z.; URBACH, V.Yu.; FRANK, G.M.

AB-1 automatic analyzer of biological structures. Biofizika 6 no.6:  
745-747 '61. (MIRA 15:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.  
(BIOPHYSICS EQUIPMENT AND SUPPLIES)

ARSHAVSKIY, Yu.I.; KOTL. Ya.M.; ORLOVSKIY, I.N.; BOGOMOLY, I.M.  
SHIK, M.L.

Study of the biomechanics of the eye. *Biomechanics*  
no.4:665-672 1969. (MIRA)

1. Institut biologicheskoy fiziki AN SSSR Moskva.

KAMINIR, L.B.; ORLOVSKIY, G.N.

Some characteristics of the operation of a high frequency synchrotron  
system with a large number of electrons accelerated in a cycle.  
Zhur. tekhn. fiz. 28 no.11:2583-2586 N '58. (MIRA 12:1)  
(Synchrotron)

S/908/62/000/000/004/008  
B163/B180

**AUTHORS:** Gagin, Ye. N., Kaminir, L. B., Molchanov, S. S.,  
Orlovskiy, G. N., Pisarev, V. Ye., Pyshkin, B. N.,  
Fedotov, A. P., Yakimenko, M. N.

**TITLE:** System for electron injection into the chamber of the  
680 Mev synchrotron

**SOURCE:** Uskoritel' elektronov na 680 Mev; sbornik statey. Ed. by  
Z. D. Andreyenko. Moscow, Gosatomizdat, 1962. 41-49

**TEXT:** The method is the same as in the Dubna 10 Bev proton synchrotron. Particles of constant energy are injected into the magnetic field of the first quadrant almost at right angles to the magnet radius; injection is stopped on reaching the equilibrium orbit of the chamber center, and the accelerating field is switched on direct injection is impossible, due to the design of the accelerator magnet and the high-voltage injector (injection energy 0.8 Mev). The electron beam from the Van de Graaff generator is first deflected by a magnetic 60° sector field and then injected by three pairs of deflection plates for a total deflection of

Card 1/2

System for electron injection ...

S/908/62/000/000/004/008  
B163/B180

30°, into the synchrotron chamber. Between the Van de Graaff exit and the magnetic deflector there is a magnetic corrector consisting of two pairs of magnetic polepieces to correct the eccentricity of the accelerated beam with respect to the geometrical axis. Directly behind the magnetic deflector is a 1.5 kv electric deflector which can be used to select short pulses of 1  $\mu$  sec. When switched off, the beam passes through a horizontal slit diaphragm. The alignment can be checked on two fluorescent screens. A double electrostatic corrector and two capacitors adjust the position and angle of the beam in the deflectors of the injector, which are in one of the straight sections of the accelerator. Each plate can be separately adjusted by translation and rotation from outside without destroying the vacuum. The radius of curvature of the orbit in this deflection system is 60 cm. The voltage across each pair of plates can be controlled separately. A rough estimate shows that an instability of  $2 \cdot 10^{-3}$  rad in the radial and  $5 \cdot 10^{-2}$  rad in the axial component of the injection angle produce an intensity loss of 20%. The instabilities of the supply sources are of the order of 0.01 to 0.06%. Circuit diagrams are given for the d.c. amplifier and the rectifier for the reference voltage. There are 5 figures and 1 table.

Card 2/2

S/908/62/000/000/005/008  
B163/B180

**AUTHORS:** Kamir, L. B., Molchanov, S. S., Orlovskiy, G. N.,  
Pyskin, B. N., Fedotov, A. F., Yakimenko, M. N.

**TITLE:** Radiotechnical system of the 680 Mev accelerator

**SOURCE:** Uskoritel' elektronov na 680 Mev; sbornik statey. Ed. by  
Z. D. Andreyenko. Moscow, Gosatomizdat, 1962. 50-57

**TEXT:** In the first acceleration stage, when the electron velocity is still low, a broad-band accelerating device is used consisting of a 55 cm drift tube and a section of coaxial line, whose input conductance compensates the capacitance of the tube. The equivalent oscillatory circuit has a wave resistance of 65 ohm. The circuit is shunted by a resistance to broaden the transmission band. The acceleration per orbit is 250 v, the HF power 2 kw; in the first 10 msec the frequency increases from 19.2 - 20.4 mcps. In the second stage, acceleration occurs with a constant frequency of 20.4 Mcps, using a toroidal resonator with a Q-factor of 2000, and wave resistance 6 ohm. Acceleration per orbit is 15 kv, and HF power dissipation 20 kw. The radiation loss in the final stage is

Card 1/2

Radiotechnical system of the ...

S/908/62/000/000/005/008  
B165/B180

about 10 kev per orbit. The timing of the different accelerator elements (injection pulse, magnetising current, first and second accelerating stage) is controlled by pulses connected to delay circuits. A system of signal electrodes indicates the intensity and position of the beam during acceleration. There are 6 figures.

Card 2/2

ORLOVSKIY, G. N.

S/908/62/000/000/007/008  
B163/B180

AUTHORS: Babkin, V. M., Bozin, G. M., Gagin, Ye. N., Yeregin, L. V.,  
Metal'nikov, Yu. N., Orlovskiy, G. N., Petukhov, V. A.,  
Pisarev, V. Ye., Sedov, N. G., Shorin, K. N.

TITLE: Some starting-up and operating problems of the 680 Mev  
synohrotron

SOURCE: Uskoritel' elektronov na 680 Mev; sbornik statey. Ed. by  
Z. D. Andreyenko. Moscow, Gosatomizdat, 1962. 64-74

TEXT: The momentary particle orbit during the first revolutions is distorted due to a number of uncontrollable deviations from the ideal magnetic field configuration. This must be corrected in order to capture a sufficient part of the injected electrons. Indicating devices measuring deviations help to find the initial conditions, e.g., the correct injection angle and timing for which the free oscillations about the equilibrium orbit become minimal during the first revolutions. Similar methods were used to correct for deviations of the median surface of the magnetic field from the geometrical symmetry plane. For these measurements

Card 1/3



S/908/62/000/000/007/008  
B163/B180

Some starting-up and operating ...

a chopper was used, consisting of an electric deflector immediately behind the  $60^\circ$  magnetic sector field in the injection line, by which short pulses of 1-2  $\mu\text{sec}$  duration could be selected from the injected beam. The signalling devices were flags and grids coated with luminescent paint, sometimes in connection with photomultipliers. In this way the orbit deviations could be reduced to 2-3 cm in radial in 1-2 cm in vertical direction. In the quasisbetatron and the synchrotron acceleration stages the envelope of all oscillating orbits was measured by movable vanes, three or four in each sector. In the first stage, about 15  $\mu\text{sec}$ , the accelerating field is disconnected but the magnetic field is growing. When the momentary particle orbit has been reduced, at 0.2 to 0.3 mm per revolution, from the inflector to the central chamber radius, the accelerating electric field is switched on. Under optimal conditions, the capture coefficient is 2%, which corresponds to  $2.5 \cdot 10^9$  electrons per cycle. To avoid undesirable resonance effects from the passing electron beam in the resonator during the first stage the resonator is detuned, and the second stage is performed at a smaller orbit radius. When the field is switched off at the end of the accelerating cycle, the magnetic field is still rising and the electrons hit the target, a tungsten wire 1 mm

Card 2/3

Some starting-up and operating ...

S/908/62/000/000/007/008  
B163/B1B0

diam, inside the acceleration orbit. The intensity of the  $\gamma$  radiation produced was measured in a thick-walled graphite ionisation chamber. A total  $\gamma$  energy per cycle of  $2 \cdot 10^5$  Mev could be achieved, and the number of accelerated electrons per cycle was of the order of  $10^6$ . There are 6 figures.

Card 3/3

IVANITSKIY, G.R. (Moskva); ORLOVSKIY, G.N. (Moskva)

Direct input of information on microscopic objects into a  
computer. Avtom. 1 telem. 24 no.10:1416-1421 0 '63.  
(MIRA 16:11)

LITVIN-KAY, I. I.; KOPY-VA, V. M.; OBLADSKY, G. N.

Study of the morphology of microorganisms by using automatic analyzer for microobjects. *Biofizika* 10 no.3:463-469 '65. (MIRA 18:11)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted Jan. 24, 1963.

L 62518-65

ACCESSION NR: AP5018800

UR/0217/65/010/004/0665/0672  
577.3

24

AUTHOR: Arshavskiy, Yu. I.; Kots, Ya. N.; Orlovskiy, G. N.; Rodionov, I. M.; Shik, M. L.

TITLE: Investigation of the biomechanics of running in dogs

SOURCE: Biofizika, v. 10, no. 4, 1965, 665-672

TOPIC TAGS: motion mechanics, animal physiology

ABSTRACT: The authors investigated the kinematics (trajectory of hinge joints, phases of support and transfer of extremity) of dogs running on a treadmill at speeds ranging from 1 1/2 to 11 km/hour. The cycle of each joint was found to have an area (transfer phase) whose trajectory is virtually constant regardless of the speed at which the animal runs. Shifting by the animal in relation to the support during the running is likewise little affected by the speed. The coordination of

rior-posterior relations do vary with the speed of running. There are

Card 1/2

L 62518-65

ACCESSION NR: AP5018800

elements and elements varying with the speed in the kinematic picture. Only two parameters are significantly dependent on the speed. It is biomechanically impossible to run at different speeds with a change in fewer parameters. "The authors are grateful to I. M. Gel'fand, B. S. Gurfinkel', I. I. Pyatetskiy-Shapiro, and M. L. Tsetlin for their interest in this work and for valuable advice." Orig. art. has: 5 figures.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Institute of Biophysics, AN SSSR)

SUBMITTED: 14Jan65

ENCL: 00

SUB CODE: LS

NO REF SOV: 004

OTHER: 004

Card 2/2

ORLOVSKIY, G.N.; SHIK, M.L.

Standard elements of cyclic movement. Biofizika 10 no.5:847-854  
'65.

(MIKA 18.10)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

CHIV, M. S.; ORLOV, K. V.

Coordination of legs during dog's run. *Biofizika* 10, 1071-1075 (1965).

1. Institut biologicheskoy fiziki AN SSSR, Moscow. Submitted April 20, 1965.



L 46290-66 EWT(1) SCTB DD

ACQ NR: AP6031122

SOURCE CODE: UR/0217/66/011/002/0364/0366

AUTHOR: Orlovskiy, G. N.; Severin, F. V.; Shik, M. L. 7

ORG: Institute of Biological Physics, AN SSSR, Moscow (Institut biologicheskoy fiziki AN SSSR) B

TITLE: Effect of speed and load on a dog's coordination of movements while running

SOURCE: Biofizika, v. 11, no. 2, 1966, 364-366

TOPIC TAGS: synergy, dog, skeletal mechanics, EEG

ABSTRACT: Previously two of the authors (G. N. Orlovskiy and M. L. Shik), together with Yu. I. Arshavskiy, Ya. M. Kots and I. M. Rodionov, investigated the movements of dogs running on a treadmill and came to the conclusion that over a wide range of running speeds there is a one-to-one correspondence between running speed and the movements of all the limbs which corresponds to the "trot"-type gait. It was noted that the duration of the limb-support phase is much more highly dependent on running speed than are duration and trajectory of limb transfer. Limb transfer was therefore called a "standard" running element. Obviously, a change in treadmill running speed leads to a corresponding change in the load on the animal's motor system: the greater the speed, the greater is the power which the animal must develop. However, such a one-to-one correspondence does not always exist under actual conditions. The

Card 1/3

UAC: 571.37  
09.02.37

ACC NR: AP0031122

present article describes the movements of a dog when running under conditions where the power to be developed by the animal's motor system could be made to vary by setting the running speed or in other ways. With pickups placed on the principal joints to transmit joint angles, the animal ran along the belt of the treadmill. Changes in the angles of the joints were recorded on an electroencephalograph. The experimenter could independently vary not only the speed of the electric motor-driven belt, but also the angle of inclination of the belt. A leash tied to the dog's collar made it possible to pull the animal back. Tractive force was measured by a dynamometer.

The authors state that the results obtained forced them to revise some of their previous conclusions. The animal's movements are determined not only by running speed, but also by the magnitude of supplementary load. In cases of significant change in load and running speed there is a change in the amplitudes and velocities of joint movements during the limb-transfer phase, especially marked in the region of low low and running-speed values. Thus,

Card 2/3

L 46290-66

ACC NR: AP6031122

the transfer phase is not a standard running element in the literal sense although a number of its elements vary slightly over the whole investigated range of velocities and loads. The effect of running speed and load on movements is not the same. Speed affects a greater number of values characterizing the movements of the limbs than does load. Supplementary load changes only values which are affected by speed, with an increase in both speed and load resulting in an increase in the amplitudes and velocities of joint movements. Orig. art. has: 2 figures. [JPRS: 36,932]

SUB CODE: 06 / SUBM DATE: 19Nov65 / ORIG REF: 002

Card 3/3

ORLOVSKIY, G. S.

Welding

Automatization of welding at the "L'vovsel' mash" plant; Avteg. dolo 23 no. 1, 1958.

9. Monthly List of Russian Accessions, Library of Congress, May 1958<sub>2</sub>, Uncl.

ORLOVSKIY, G.S.

Simple mechanization. Mashinostroitel' no.2:10-11 F '63.  
(Lvov→Machinery industry) (MIRA 16:3)

ORLOVSKIY, I.A., student

Handmade tabular furnace heated electrically. Khim. v shkole 15  
no.2:50-51 Mr-Apr '60. (MIRA 14:5)

1. Pedagogicheskiy institut imeni Gertsena, Leningrad.  
(Furnaces)

ORLOVSKIY, I.A., student

Demonstrating the industrial way of manufacturing acetate fibers.  
Khim. v shkole 16 no.6:59-62 N-D '61. (MIRA 14:11)

1. Pedagogicheskiy institut imeni A.I. Gertsena, Leningrad.  
(Rayon)

GAYKO, A.A. [Haiko, A.A.], kand.sel'skokhos.nauk; VOYTKO, D.I. [Voitka, D.I.],  
kand.sel'skokhos.nauk; ORLOVSKIY, I.A. [Arlovski, I.A.], kand.  
sel'skokhos.nauk; RYKIS, V.A., kand.sel'skokhos.nauk; GURIN, M.  
[Huryu, M.], red.; KALICHITS, G. [Kalechyts, H.], tekhn.red.

[Breeding work with livestock breeds of greatest interest in the  
agricultural planning of White Russia] Planiannia rabota  
s planovymi porodami sel'skhaospadarchai shyvety Belaruskai SSR.  
Minsk, Dzierzh.vyd-va BSSR, Red.sel'skhaospadarchai lit-ry,  
1960. 198 p. (MIRA 14:3)  
(White Russia--Stock and stockbreeding)



ORLOVSKIY, I.

Organization of scientific work on the study of hidden  
potentialities for growth in labor productivity. *Biul.*  
*nauch.inform.trud i zar.plata* no.1:16-18 '59. (MIRA 12:4)  
(Labor productivity)

ZINGER, Z.; ORLOVSKIY, I. (Orel); MATOV, N.; FEDOTENKO, N.; ORLENIN, A.,  
insh.; BARANOV, V.

Each enterprise should have a primary organization of the  
scientific technological society. NTO 2 no.4:60 Ap '60.  
(MIRA 13:6)

1. Predsedatel' Kuybyshevskogo oblastnogo pravleniya nauchno-  
tekhnicheskogo obshchestva gorodskogo khozyaystva i avtotransporta  
(for Zinger).
2. Predsedatel' soveta pervichnoy organizatsii  
Nauchno-tekhnicheskogo obshchestva Moshayskogo lesopromkhozha,  
Morskovskaya oblast' (for Matov).
3. Zamestitel' predsedatelya  
TSentral'nogo pravleniya Nauchno-tekhnicheskogo obshchestva mashino-  
stroitel'noy promyshlennosti (for Fedotenko).  
(Technical societies)

ORLOVSKIY, I.; RYBKINA, A.; SMRGHNEVA, G.

Calculating the correspondence between the rate of growth  
of labor productivity and average wages. *Biul. nauch.*  
inform.: *trud i zar.plata* 3 no.4:15-21 '60.  
(MIRA 13:8)  
(Wages and labor productivity)

ORLOVSKIY, I.; SERGEYEVA, G.; HYBKINA, A.

Selecting a labor productivity index in calculating the relationship between the increase of labor productivity and average wages. Biul.nauch.inform: trud i zar.plata 3 no.7:3-6 '60. (MIRA 13:8)  
(Moscow--Wages and labor productivity)

ORLOVSKIY, Il'ya Aleksandrovich; SERGEYEVA, Galina Petrovna; BUDARINA, V.,  
red.; DUDNICHENKO, E., ml. red.; NOGINA, N., tekhn. red.

[Correlation between labor productivity and wages in the U.S.S.R.  
industry] Sootnoshenie rosta proizvoditel'nosti truda i zarabotnoi  
platy v promyshlennosti SSSR. Moskva, Izd-vo sotsial'no-ekon. lit-ry,  
1961. 142 p. (MIRA 14:9)

(Wages and labor productivity)

KAPUSTIN, Ye.I., kand. ekonom. nauk; ORLOVSKIY, I.A.; SHKURKO, S.I.;  
BUDARINA, V., red.; KIRSANOVA, I., mladshiy red.; CHEPELEVA, O.,  
tekhn. red.

[Wages and their improvement in U.S.S.R. industry] Zarabotnaia  
plata v promyshlennosti SSSR i ee sovershenstvovanie. Pod red.  
E.I.Kapustina. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1961. 201 p.  
(MIRA 15:3)

1. Moscow. Nauchno-issledovatel'skiy institut truda.  
(Wage payment systems)

ORLOVSKIY, I.

Ways to improve wage planning in U.S.S.R. industry. Biul.  
nauch. inform.: trud i zar. plata 5 no.6:24-30 '62. (MIRA 15:6)  
(Wages)

ORLOVSKIY, Il'ya Aleksandrovich; TOLYPINA, O.N., red.

[Wage planning in industry] Planirovanie zarabotnoi pla-  
ty v promyshlennosti. Moskva, Ekonomika, 1964. 188 p.  
(MIRA 17:6)



LYSENKO, A. T.; ORLOVSKIY, I. G.

Harrows

Degree of soil crumbling with spike-tooth harrows. Pochvovedenie, no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 19~~55~~<sup>56</sup> Uncl.

ORLOVSKIY, I.P. (Orel)

Pressure tests for asbestos-cement pipes. Vod. i san. tekhn. no.10:  
40-41 O '60. (MIRA 13:11)  
(Pipe, Asbestos-cement--Testing)

ORLOVSKIY, I.V.; KRUPKIN, P.I.; FOL'SKIY, M.N.; FOMIN, P.F.;  
SHAKIROV, F.Kh.; P'YAVCHENKO, N.I., prof., doktor biol.  
nauk, otv. red.

[Soil erosion in the area of the Minusinsk Lowland and its  
control; advice to agricultural workers] Eroziia pochv v  
raionakh Minusinskoj vpadiny i bor'ba s neiu; **sovety rabot-**  
**nikam sel'skogo khoziaistva.** Krasnoiarsk, AN SSSR, In-t  
lesa i drevesiny, 1963. 69 p. (MIRA 18:3)

ORLOVSKIY, Kirill Prokof'yevich, ZELENSKAYA, N.I.

[Every collective farm can be like this] "Takim mozhet stat' kazhdyi kolxhoz". Mostov-na-Donu, 1956. 11 p. (MIRA 11:10)  
(Collective farms)

**ORLOVSKIY, Kirill Prokof'yevich**, deputat Verkhovnogo Soveta SSSR, Geroy Sovetskogo Soiuza; **RAKITINA, Ye.D.**, redaktor; **PERESYPKINA, Z.D.**, tekhnicheskiy redaktor; **SOKOLOVA, N.N.**, tekhnicheskiy redaktor

[Every collective farm can be like this one] Takim mozhet stat' kazhdyi kolkhoz. Izd. 2-oe, ispr. i dop. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 109 p. (MLBA 9:11)

1. Predsedatel' kolkhosa "Rassvet" (for Orlovskiy)  
(Collective farms)

ORLOVSKIY, Kirill Prokof'yevich; RAKITINA, Ye.D., redaktor; PERESYPKINA, Z.D.,  
tekhnicheskij redaktor; SOKOLOVA, N.N., tekhnicheskij redaktor.

[Every collective farm can be like this one] Takim mozhet stat'  
kazhdyi kolkhos. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 111 p.  
(MIRA 10:11)

(Collective farms)

ORLOVSKIY, K., geroy Sotsialisticheskogo Truda, geroy Sovetskogo soyuza.

Recent developments on the "Rassvet" Collective Farm. Nauka i  
pered. op. v sel'khoz. 9 no.2:15-18 P '59. (MIRA 12:3)

1. Predsedatel' kolkhoza "Rassvet," Kirovskogo rayona, Mogilevskoy  
oblasti.

(Collective farms)

ORLOVSKIY, Kirill Prokof'yevich, Geroy Sovetskogo Soyuz, Geroy  
Sotsialisticheskogo Truda, deputat Verkhovnogo Soveta SSSR;  
NIKITENKO, Aleksey Afanas'yevich; ZAVERNYAYEVA, L.V., red.;  
PONOMAREVA, A.A., tekhn.red.

[Economic efficiency of the specialization of the collective  
farm production; from the practice of the "Rassvet"  
Collective Farm] Ekonomicheskaya effektivnost' spetsializatsii  
kolkhoznogo proizvodstva; iz opyta kolkhoza "Rassvet." Moskva,  
Ekonomisdat, 1963. 70 p.

(MIRA 16:6)

1. Predsedatel' kolkhoza "Rassvet"(for Orlovskiy). 2. Glavnyy  
agronom, sekretar' partiynogo komiteta kolkhoza "Rassvet" (for  
Nikitenko).

(Collective farms--Management)



ORLOVSKIY, L.V. (Moskva, A-171, Podmoskovnoye shosse, d.3, kv.14)

Review of the scientific popular literature on cancer. *MIR*  
no.10:110-117 '63.

1. Iz Instituta sanitarnogo prosveshcheniya (direktor Ye.S.Kh. Matveev)

ORLOVSKIY, L.V. (Moskva)

Methodology of antialcoholism propaganda. Trudy Gos. nauch.-  
issl. inst. psikh. 38:418-423 '63 (MIRA 16:11)

\*

ORLOVSKIY, L.

PA 28/47T76

USSR/Medicine - Cancer  
Medicine - Hygiene and Sanitation

Oct 48

"Sanitation Education and the Fight Against Cancer";  
L. Orlovskiy, 4 pp

"Tel'dsher i Akusherka" No 10

Advocates concrete anticancer propaganda, in-  
cluding films and lectures, and active work by  
Red Cross and other groups.

28/49T76

ORLOVSKIY, L. V.

"Sanitary Instruction as a Factor in the Prophylaxis and Early Diagnosis of Cancer." Sub 20 Mar 51, Central Inst for the Advanced Training of Physicians.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SC: Sum. No. 480, 9 May 55.

ORLOVSKIY, L.V. (Moscow)

Good experience with sanitation and preventive work at a rural  
feldsher station. Fel'd i akush. no. 4:41-43 Ap '54. (MLRA 7:4)  
(Medicine, Rural)

ORLOVSKIY, L.V. (Moskva)

Good work of a rural midwife. Fel'd. 1 akush. no.11:35-36 N '54.  
(MIRA 7:12)

(MIDWIVES  
in Russia, rural area)

ORLOVSKIY, L.V. (Moskva)

Cancer prevention campaign. Med.soztra no.2:3-6 P '55. (MLRA 8:5)

(NEOPLASMS, prevention and control,  
in Russia, advertisement)

ORLOVSKIY, L.V., kandidat meditsinskikh nauk

~~Basic principles of cancer control.~~ Sov.med.19 no.7:85-88  
J1 '55. (MLRA 8:10)

1. Iz Tsentral'nogo nauchno-issledovatel'skogo instituta  
sanitarnogo prosveshcheniya (dir. Ye. G. Karmanova, zam.  
direktora po nauchnoy chasti-prof. L.S.Bogolepova) Minister-  
stva sdravookhraneniya SSSR  
(NEOPLASMS, prev. and control  
in Russia)



EXCERPTA MEDICA Sec 16 Vol 7/3 Cancer Mar 59

1000. **Special features of prophylactic propaganda with respect to malignant tumours of the lung (Russian text)** ORLOVSKI L. V. Moscow. From the book: *Nauchnaya konferentsiya po probleme raka legkogo 28-31 yanvariya 1957 goda. (Leningrad) 1957 (21-23)*

Relatively little attention is given to carcinoma of the lung in the field of health education. Even in popular lectures and pamphlets on cancer, prophylaxis of cancer of the lung is mentioned very rarely. The population (particularly the older age groups) should be informed about the role of chronic disorders of respiratory organs and the development of cancer of the lung; the importance of timely treatment of respiratory disorders should be stressed. Since patients sometimes refuse lung surgery believing it to be ineffective, it is essential to acquaint the population with modern successes and progress in lung surgery. The population should also be acquainted

1000

with the hygienic questions associated with prophylaxis of cancer of the lung: of the harm of smoking, the importance of nasal breathing, of preventive measures against air pollution in industry. The harmful effect of air pollution should be mentioned tactfully so as not to create the impression in people's minds that they are inevitably threatened with carcinoma of the lung. It should be stressed that people must take individual measures aimed at preventing various respiratory diseases on the basis of which cancer may sometimes develop (for example, the use of respirators when working in heavily polluted atmosphere). Hygienic propaganda should be carried out among persons of all ages, including schoolchildren. Dukelskaya - Moscow

ORLOVSKIY, L.V.

Publicizing early treatment for tumor patients. Med. centre 17 to.  
11:34-35 N'58 (MIRA 11:11)

1. Iz Instituta sanitarnogo prosveshcheniya, Moskva.  
(ONCOLOGY)

ZHUKOVITSKIY, Ivan Mikheylovich; ORLOVSKIY, L.V., red.; KALINICHEV,  
V.A., tekhn.red.

[Prevention of pulmonary cancer] Profilaktika raka legkikh.  
Moskva, Gos.isd-vo med.lit-ry Medgiz, 1960. 12 p.  
(MIRA 14:5)

(LUNGS--CANCER)

ORLOVSKIY, L.V., kand. med. nauk; SOKOLOV, I.S., red.; KAINSON, I.Ya.,  
tekhn. red.

[[Materials for propaganda against alcoholism], Sbornik materialov  
po protivalkogol'noi propagande. Sost. L.V.Orlovskii. Moskva,  
1960. 149 p. (MIRA 14:9)

1. Moscow. Tsentral'nyy institut sanitarnogo prosveshcheniya.  
(Alcoholism)

AVEDISOV, Sergey Sergeevich, doktor med.nauk; ORLOVSKIY, Leonid  
Valerianovich, kand.med.nauk; TROITSKIY, D.I., red.;  
KATINICH, I.Ya., tekhn.red.

[A powerful remedy; blood transfusion] Mogushchestvennoe  
tselobnoe sredstvo; perelivanie krovi. Moskva, In-t sanitarnogo  
prosv.M-va zdravookhraneniia SSSR, 1961. 28 p.  
(BLOOD—TRANSFUSION) (MIRA 15:4)

ORLOVSKIY, L.V.

Health education publicity with special reference to regional characteristics of cancer spreading and precancerous diseases.

Vop.onk. 7 no.2:86-91 '61.

(MIRA 14:5)

(CANCER)

(HEALTH EDUCATION)

CHAKLIN, A.V.; SVYATUKHINA, O.V.; ORLOVSKIY, L.V.

Result of field studies on regional characteristics of the distribution of malignant tumors in the U.S.S.R.; some aspects of expeditions of the Academy of Medical Sciences of the U.S.S.R. Vest. AMN SSSR 16 no.1:40-49 '61. (MIRA 14:3)

1. Institut onkologii AMN SSSR, Institut eksperimental'noy i klinicheskoy onkologii AMN SSSR i Tsentral'nyy institut sanitarnogo progressa.

(CANCER)



ORLOVSKIY, L.V., kand.med.nauk (Moskva)

Regional characteristics of the occurrence of cancer and health  
education. Sov.zdrav. 20 no.2:16-20 '61. (MIRA 14:5)  
(CANCER) (HEALTH EDUCATION)

ZHADAN, V.Z.; ORLOVSKIY, M.A.

Methods of laboratory inspection of the airtightness of  
food-filled cans. Kons.i ov.prom. 17 no.2:22-24 F '62.  
(MIRA 15:5)

1. Odesskiy tekhnologicheskii institut pishchevoy i  
kholodil'noy promyshlennosti.

(Food, Canned--Containers)  
(Laboratory testing)

ORLOVSKIY, M.B.

Early Devonian polyzoans from souther Fergana. Paleont.zhur.  
no.1:95-101 '61. (MIRA 14:8)

1. Kirgizskoye geologicheskoye upravleniye.  
(Fergana—Polyzoa, Fossil)

ORLOVSKIY, M.B.

Polyzoans from terrigenous deposits in Silurian and Devonian  
boundary layers of southern Fergana. Izv. AN Kir. SSR.  
Ser. est. 1 tekhn. nauk 3 no.4:139-141 '61. (MIRA 14:12)  
(Fergana--Polyzoa, Fossil)

ORLOVSKIY, M.B.; POYARKOV, B.V.

New data on the stratigraphy of Tournai sediments in southern  
Fergana. Izv.AN Kir. SSR. Ser. est. i tekhn.nauk 4 no.7:5-18  
no.7:5-18 '62. (MIRA 16:3)  
(Fergana--Geology, Stratigraphic)

ORLOVSKIY, M.B.; POYARKOV, B.V.

Bryozoa from Famennian sediments in the Chatkal-Naryn zone of the  
Tien Shan. Izv. AN Kir. SSR. Ser. est. i tekhn. nauk 4 no. 7:85-90  
'62. (MIRA 16:3)

(Tien Shan--Polyzoa, Fossil)

ORLOVSKIY, M.B.

New species of early Devonian polyzoans from southern Fargana.  
Paleont. zhur. no.2:32-38 '64. (MIRA 17:7)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov  
Kirgizskoy SSR.

ORLOVSKIY, M.B.; KOVBEK, V.M.

Find of Famennian sediments in the Kistran Range (northern slope of Alay Range). Mat. po geol. Tian'-Shania no.4:83-85, 1964.

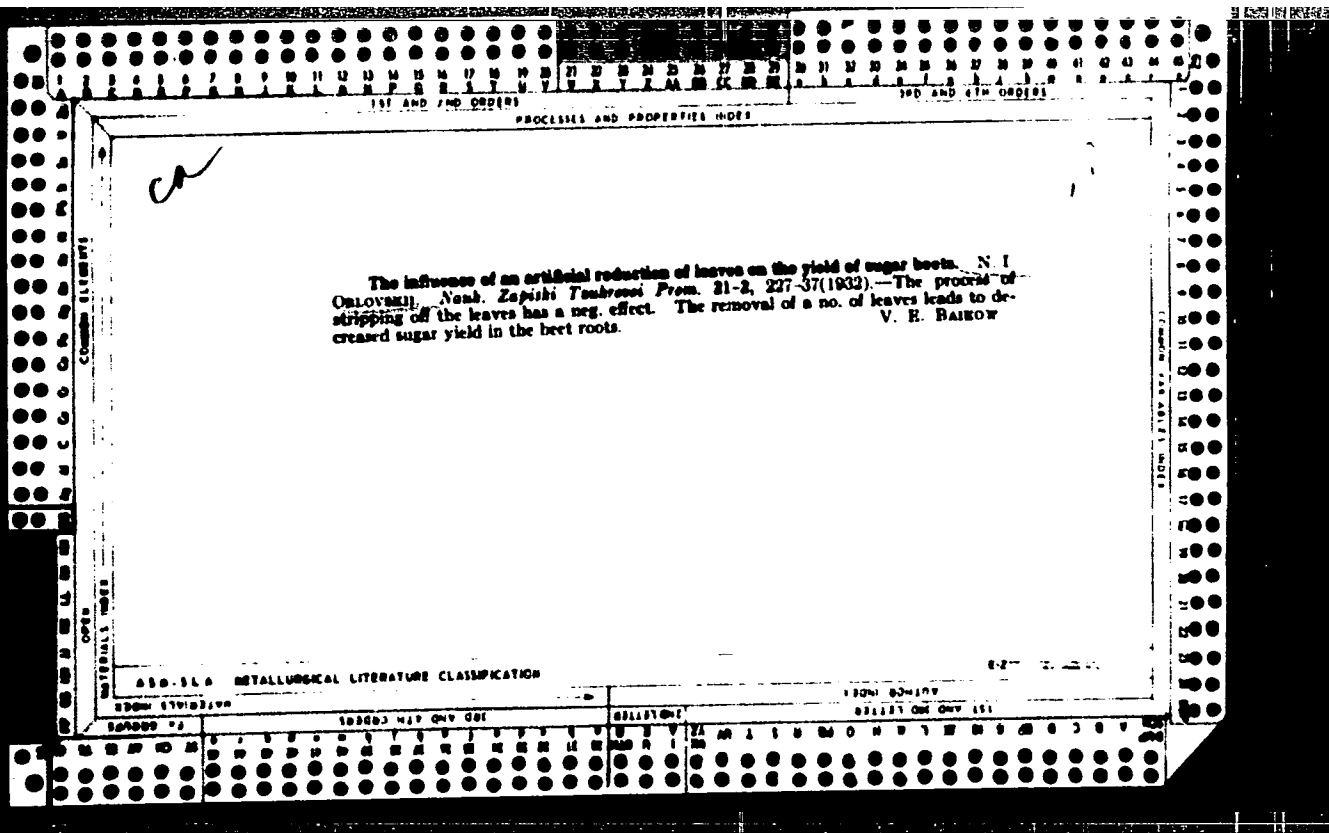
Stratigraphic position of the conglomerates of the Al'ka-Kara Range, and the Ilyachin and Iskal' Mountains (southern Fergana). Ibid.:76-88. (M.A. 1964)



ORLOVSKIY, M.B.; POYARKOV, B.V.

Paleogeography of southern Fergana in the Early Devonian.  
Sov. geol. 8 no.3:110-113 '65. (MIRA 18:5)

1. Gosudarstvennyy proizvodstvennyy geologicheskiiy komitet  
KirgSSR.



ORLOVSKIY, N. I.

20868, Orlovskiy, N. I. Seleksiya sakharnoy svekly USSR. Sbornik nauch. Raobt (Vsesoyuz. nauch. -issled. in-T sakhar. svekly). Kiyev-Khar'kov, 1948, s. 31-43.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949.

1. ORLOVSKIY, N. I.
2. USSR (600)
4. Agriculture
7. Principles of biology of the sugar beet. Kiev, Gosizdat sel'skokhozia-  
stvennoi lit-ry Ukrainskoi SSR, 1952,

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