

KHRENOV, K.K., akademik; SHESTAKOV, A.I., inzh.

Plastic deformation during pressure butt welding. Svar.proizv.  
no.1:11-12 Ja '63. (MIRA 16:2)

1. Institut elektrotehniki AN UkrSSR. 2. AN UkrSSR (for  
Khrenov).

(Welding)

(Deformations (Mechanics))

GRITSENKO, A.F., inzh.; SHESTAKOV, A.I., inzh.; YERMOLENKO, D.Ye., inzh.

Cold-pressure welding of dissimilar metals. Svar. proizv. no.2:32-33  
F '63. (MIRA 16:2)

(Cold welding).

ACCESSION NR: AP4037197

S/0125/64/000/005/Q010/0014

AUTHOR: Shestakov, A. I. (Engineer)

TITLE: Cold and press welding of light alloys

SOURCE: Avtomaticheskaya svarka, no. 5, 1964, 10-14

TOPIC TAGS: aluminum alloy, titanium alloy, aluminum alloy welding, titanium alloy welding, cold welding, press welding, aluminum alloy press welding, aluminum alloy cold welding, titanium alloy press welding, titanium alloy cold welding

ABSTRACT: An experimental study of the potentialities of cold and press welding of aluminum-magnesium alloys (AMg3, AMg5V, AMg6), thermally-hardened alloys D16AT, ATsM, V92, titanium alloys VT1, VT6, and various combinations of the above is reported. The effects of temperature, deformation, pressure, and time upon the quality of the joints were determined. Al alloys were welded at 0.7-0.8 of their melt temperature (AMg5V at 450C). Three types of clamps were tested with different ratios of the clamping pressure to the upsetting pressure.

Card 1/2

L 2097-66 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EWP(i)/ZPA(w)-2/EWP(t)/EWP(k)/EWP(z)/EWP(b)  
IJP(c) JD/WW/WH

ACCESSION NR: AP5022538

UR/0226/65/000/009/0001/0005

AUTHOR: Zemskov, G. V.; Shestakov, A. I.  
44.55 b 44.55

58  
55  
B

TITLE: Diffusion impregnation of graphite powders  
16 44.55 A

SOURCE: Poroshkovaya metallurgiya, no. 9, 1965, 1-5

TOPIC TAGS: graphite powder, powder particle, graphite particle impregnation, vapor phase impregnation, chromium impregnated graphite, titanium impregnated graphite, molybdenum impregnated graphite, tungsten impregnated graphite

ABSTRACT: A method of diffusion impregnation of graphite<sup>b</sup> powder with carbide<sup>27</sup>-forming elements in the gaseous phase is proposed. The method is based on a reaction between graphite powder mixed with the impregnation metal particles and a vaporized halide of the same metal transported by an inert gas or hydrogen. In the experiments, graphite powder was impregnated with chromium using liquid bromine as the halide and helium for bromine-vapor transport. The impregnation was conducted at 1000-1200C for up to 90 min. It was found that the optimum conditions for obtaining the thickest impregnated layer were a bromine temperature of 25C, a feed of helium and bromine of 7 ml/sec and 0.05 ml/min, respectively, and a weight ratio of chromium particles to graphite powder in the mixture equal to 6. The reaction temperature had the

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ACCESSION NR: AP5022538

3

greatest effect on the impregnated layer thickness (see Fig. 1 of the Enclosure). Dense, uniform, strongly adhering layers were obtained on graphite grains 60 and 200 mesh with a 50-min reaction at 200C. X-ray structural analysis showed that all coatings consisted of  $Cr_3C_2$  and  $Cr_7C_3$  carbides with a microhardness of 1840—2440 dan/mm<sup>2</sup>. In further experiments, dense, ductile coatings consisting of TiC with a microhardness of 1300—3000 dan/mm<sup>2</sup> were obtained on graphite particles with a 70-min reaction at 1200C. Mo<sub>2</sub>C coatings were obtained with a 50-min reaction at 1200C. Tungsten-carbide coatings were also obtained on graphite particles with a reaction at 1300C. Orig. art. has: 5 figures. [MS]

ASSOCIATION: Odesskiy politekhnicheskiy institut (Odessa Polytechnic Institute)

SUBMITTED: 13Feb65

ENCL: 01

44.55  
SUB CODE: MT, MM

NO REF SOV: 000

OTHER: 002

ATD PRESS: 413

Card 2/3

L 2097-66  
ACCESSION NR: AP5022538

ENCLOSURE: 01

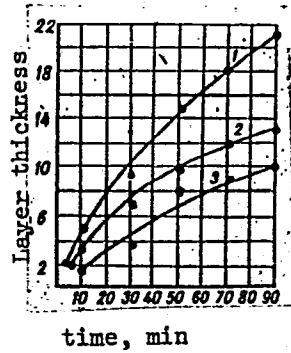


Fig. 1. Dependence of the layer thickness on the temperature and duration of impregnation process

1 - 1200C; 2 - 1100C; 3 - 1000C.

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(N) L 12920-66 EWP(e)/EWT(m)/T/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) JD

ACS NR: AP6001008

SOURCE CODE: UR/0286/65/000/022/0079/0079

AUTHORS: Zemskov, G. V.; Shestakov, A. I.

41  
B

ORG: none

TITLE: A method for thermodiffusional surface saturation of metals and alloys. Class 48, No. 176475

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 79

TOPIC TAGS: metallurgy, metal powder, halogen, iodine compound, metal diffusion, alloy

ABSTRACT: This Author Certificate presents a thermodiffusional method for surface saturating of powdered metals and alloys in the atmosphere of halides. To eliminate the harmful effect of nitrogen absorption resulting from the use of ammonium chloride, solid halogen compounds of ICl or IBr are used as sources of halogens.

SUB CODE: 13,11/

SUBM DATE: 04May64

Card 1/1 HW

UDC: 621.793.6

ACC NR: AP6029075

SOURCE CODE: UR/0413/66/000/014/C131/0131

INVENTOR: Zemskov, G. V.; Shestakov, A. I.

47  
B

ORG: none

TITLE: Method of applying a diffusion coating on graphite. <sup>12</sup> Class 48, No. 184093

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 131

TOPIC TAGS: diffusion coating, graphite ~~coating~~, metal coating, METAL DIFFUSION  
PLATING

ABSTRACT: This Author Certificate introduces a method of applying metal diffusion coating on graphite. To ensure the homogeneity of the diffusion layers, the process is carried out in an atmosphere of halides, such as bromides, of the metal used as a coating medium. In a modification of the above method, the metal halides are carried into the reaction chamber by an inert gas, such as helium or argon. [TD]

SUB CODE: 11, 13/ SUBM DATE: 20Mar64/ ATD PRESS: 5066

Card 1/1 IC

UDC: 621.793.6:546.26-162-492.2



ACC NR: AP7001929

(A)

SOURCE CODE: UR/0125/66/000/012/0034/0036

AUTHOR: Shestakov, A. I. (Leningrad)

ORG: none

TITLE: Cold and pressure welding with high deformation rates

SOURCE: Avtomaticheskaya svarka, no. 12, 1966, 34-36

TOPIC TAGS: cold welding, static load welding, dynamic load welding, vibration welding, *alloy welding*

ABSTRACT: Experiments with cold welding at different deformation rates showed that the deformation rate has a significant effect on the welding process and the weld quality. For instance, no welding occurred in aluminum or copper specimens at a reduction of 50—60% under conditions of static loading, i.e., at low deformation rate. At the same reduction, but at a deformation rate of 300 m/sec (obtained by shooting a projectile-specimen against a solid plate of the same material as that of the projectile), a perfect weld was obtained in which no fusion zone could be distinguished. At a deformation rate of 50 m/sec, the weld quality is poor; it improves considerably as the deformation rate increases and becomes perfect at a rate of 250 m/sec. High deformation rates also cause the least distortion and warpage. The required deformation rate varies, depending on the metal being welded. A similar effect was observed in vibration loading with high amplitude and low frequency, such

Card 1/2

UDC: 621.791.1

ACC NR: AP7004794

SOURCE CODE: UR/0413/67/000/001/0128/0128

INVENOR: Shestakov, A.I.

ORG: none

TITLE: Method of pressure welding. Class 49, No. 190187

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 128

TOPIC TAGS: pressure welding, ~~metal welding~~ refractory metal, ~~welding, heterogeneous metal welding~~ POWDER METAL, METAL JOINING

ABSTRACT: This Author Certificate introduces a method of pressure welding with a metal powder placed in the gap between objects. To improve the quality of welds in joining refractory and heterogeneous metals, the powder is pressed and sintered. [TD]

SUB CODE: 13/ SUBM DATE: 26Apr65/ ATD PRESS: 5116

Card 1/1

UDC: 621.791.66

SHESTAKOV, A.I.

Experience with operating electric and diesel locomotives on the Omsk  
Railroad. Zhel.dor.transp.37 no.4:23-27 Ap '56. (MLRA 9:7)

1.Glavnyy inzhener Omskey deregi.  
(Electric locomotives) (Diesel locomotives)

SHESTAKOV, Aleksandr Ivanovich; TIKHONOV, K.K., dotsent, red.; MEDVE-  
DEVA, M.A., tekhn.red.

[Organization of the operation of trains with electric and  
diesel traction; practices of the Omsk Railroad] Opyt organi-  
zatsii poezdnoi raboty pri elektricheskoi i teplovozdnoi tiage;  
iz praktiki Omskoi dorogi. Moskva, Gos.transp.zhel-dor.izd-vo,  
1959. 65 p. (MIRA 13:3)

(Railroads--Management)

SHESTAKOV, A.I.

How to improve the methodology for calculating the traffic  
capacity of railroads. Zhel.dor.transp. 42 no.5:51-56 My  
'60. (MIRA 13:9)

1. Glavnyy inzhener Omskoy dorogi.  
(Railroads--Traffic)

BAYEV, N.V.; BOBROV, Ye.G.; DEMIDOV, G.A.; DENISOV, A.D.; ZHUKOV, N.Ya.;  
LELEKOV, Yu.S.; POZDNYAKOV, I.M.; POLKOVNIKOV, B.M.; TRIBURT, I.I.;  
TYURIKOV, A.A.; SHESTAKOV, A.I., inzh.; PESKOVA, L.N., red.;  
KHITROVA, N.A., tekhn. red.

[Advanced technology on railroads] Peredovaia tekhnologiia na  
zheleznoi doroge. Moskva, Vses. izdatel'sko-poligr. ob"edine-  
nie M-va putei soobshcheniia, 1961. 84 p. (MIRA 14:12)  
(Railroads)

AKSENOV, I.Ya., kand.tekhn.nauk; MOKSHIN, L.S.; SHESTAKOV, A.I.;  
TIKHONOV, K.K., kand.tekhn.nauk

Train traffic organization on lines with lengthened hauls. Zhel.  
dor. transp. 43 no. 1:21-28 Ja '61. (MIRA 14:4)

1. Nachal'nik sluzhby dvizheniya Kuybyshevskoy dorogi (for Mokshin).
2. Glavnyy inzhener Omskoy dorogi (for Shestakov).  
(Railroads--Traffic)

ZAGLYADIMOV, Dmitriy Petrovich; PETROV, Aleksandr Petrovich;  
SERGEYEV, Yevgeniy Stepanovich; AKHRAMOVICH, L.K.,  
retsenzent; VARGIN, S.N., retsenzent; YERMAKOV, A.A.,  
retsenzent; KOZAK, V.A., retsenzent; MODZOLEVSKIY,  
I.V., retsenzent; PERSHIN, B.F., retsenzent; PIVENSHTEYN,  
D.I., retsenzent; PROKOF'YEV, A.G., retsenzent; SMETANIN,  
A.I., retsenzent; SHESTAKOV, A.I., retsenzent; RYSHUK,  
N.S., red.

[Organization of traffic in railroad transportation] Orga-  
nizatsiia dvizheniia na zheleznodorozhnom transporte.  
Izd.4. Moskva, Transport, 1964. 542 p. (MIRA 18:1)



SHESTAKOV, A.I.

Cold and pressure welding of light alloys. Avtom. svar. 17 no.5:  
10-14 My '64. (MIRA 17:11)

1. Institut elektrosvariki imeni Patona AN UkrSSR.

BELOUSOV, A.D., prof. (Novosibirsk); SHESTAKOV, A.I. (Novosibirsk)

Important potentials for the improvement of work conditions  
and rest periods of locomotive crews. Zhel. dor. transp. 46  
no.7:38-39 J1 '64. (MIRA 17:8)

1. Glavnyy inzh. Zapadno-Sibirskoy dorogi (for Shestakov).

L 24800-66 EWT(m)/EWP(e)/EWP(k)/EWP(t) - IJP(c) JD/WW/JG/WH

ACC NR: AP6011347

SOURCE CODE: UR/0226/66/000/003/0037/0041

AUTHOR: Shestakov, A. I.

52  
B

ORG: Odessa Polytechnic Institute (Odesskiy politekhnicheskiy institut)

TITLE: Sintering of graphite powders during chemical heat treatment with carbide-forming elements

SOURCE: Poroshkovaya metallurgiya, no. 3, 1966, 37-41

TOPIC TAGS: graphite, powder metal sintering, metal diffusion plating, metal surface impregnation, chromium, titanium, titanium compound, powder metallurgy

ABSTRACT: Chromizing and titanium impregnation of graphite powders of various granulometric composition and of compressed graphite blanks are discussed. The kinetics involved in obtaining chromium carbide coatings on graphite is examined. The possibility of obtaining titanium carbide coatings is shown. The main factors affecting the depth of coating and the sinterability of carbidized powders are established. Plasticizers, such as rubber solution in gasoline, have no effect on impregnation kinetics. [Based on author's abstract.] [NT]

SUB CODE: 11/ SUBM DATE: 16Jun65/ ORIG REF: 002/

Card 1/1 97

2

SHESTAKOV, A. G.

DECEASED

Plant Physiology

see ILC

*See ILC #*

SHESTAKOV, Aleksandr Leonidovich; ISLANKINA, T.F., redaktor; GUBIN, M.I.,  
tekhnicheskiiy redaktor

[Automatic equipment for fire control] Avtomaticheskie ustroistva  
v bor'be s pozharami. Moskva, Izd-vo "Znanie," 1957. 37 p.  
(Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh i  
nauchnykh znani. Ser. 4, no.7) (MIRA 10:9)  
(Fire sprinklers)

SHESTAKOV, A.L., redaktor; VOLKOV, S.V., tekhnicheskiy redaktor

[Articles on fire fighting techniques in foreign countries]  
Informatsionnyi sbornik; zarubezhnaia pozharnaia tekhnika.  
Moskva, Izd-vo M-va kommun. khoz. RSFSR, 1957. 130 p. (MLRA 10:7)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut  
protivopozharnoy oborony.  
(Fire extinction)

FETISOV, Petr Afinogenovich, inzh.; SHESTAKOV, A.L., red.; OTOCHEVA,  
M.A., red.izd-va; SALAZKOV, N.P., tekhn.red.

[Explosion hazard in gas mixtures, caused by electric sparks]  
Vzryvoopasnost' elektricheskogo iskreniia v gazovykh smesiakh.  
Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1959. 76 p. (MIRA 12:12)  
(Explosions)

SHESTAKOV, A.L., inzh.

Development of scientific research in the investigation of fires in  
Great Britain. Inform.zbor.TSN'IPO no.3:147-148 '59. (MIRA 14:3)  
(Great Britain—Fire prevention—Research)



SHESTAKOV, A.L., red.; YERSHOV, P.R., vedushchiy red.; GANINA, L.V.,  
tekhn.red.

[New methods and equipment for the extinction of petroleum  
fires] Novye sposoby i sredstva tusheniya plameni neftepro-  
duktov; sbornik statei. Moskva, Gos.nauchno-tekhn.izd-vo neft.  
i gorno-toplivnoi lit-ry, 1960. 146 p.

(MIRA 13:11)

1. Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut  
protivopozharnoy obrony.  
(Fire extinction) (Petroleum products)

ZHDANOV, Sergey Mikhaylovich, kand.tekhn.nauk; MAKAROV, Viktor Matveyevich;  
SHESTAKOV, Aleksandr Leonidovich; POLUKHIN, V.P., red.; KOROGODIN,  
A.S., red.izd-va; NAZAROVA, A.S., tekhn.red.

[Automatic fire-protective signaling system] Avtomaticheskaya  
pozharная signalizatsiia. Moskva, Izd-vo M-va kommun. khoz.RSFSR,  
1960. 159 p. (MIRA 14:2)

(Fire alarms)

SHESTAKOV, A.L., red.; NIKOLAYEVA, T.A., red.izd-va; KHENOKH, E.M.,  
tekhn. red.

[Collection of information "Fire prevention"] Informatsionnyi sbor-  
nik "Pozharnaya profilaktika." Moskva, Izd-vo M-va kommun. khoz.  
RSFSR, 1961. 183 p. (MIRA 15'6)

1. Balashikha, Tsentral'nyy nauchno-issledovatel'skiy institut  
protivopozharnoy oborony.

(Fire prevention)

SHABASH, I.Ye., gornyy inzh.; SHESTAKOV, A.M., gornyy inzh.; VOLOSHIN, N.Ya.,  
gornyy inzh.

Investigating stresses in the axis of unloading gate rollers of an  
ISDM skip hoist. Gor. zhur. no.6:76-77 Je '65. (MIRA 18:7)

1. Institut Giprorudmash, Krivoy Rog.

BOCHAROV, V.I., inzh., otv. za vypusk. Prinimali uchastiye: SHESTAKOV,  
A.N., inzh.; PROLOV, K.I., inzh.; SYSOYENKO, N.A., inzh.;  
MOISSYIEVA, V.G., inzh.; SIMAKOV, V.I., tekhnik; SEROV, V.I.,  
tekhnik; BOBROVA, Ye.N., tekhn.red.

[Album of drawings of electric machinery of the N8 and VL23  
electric locomotives] Al'bom chertezhei elektricheskikh mashin  
elektrovozov N8 i VL23. Moskva, Vses.izdatel'sko-poligr.ob"edi-  
nenie M-va putei soobshcheniia, 1960. 325 p. (MIRA 13:10)

1. Novocherkasskiy elektrovozostroitel'nyy zavod.  
(Electric locomotives)

SHESTAKOV, A.N.; ZHELEZNYAKOV, A.T.

Advice on the operation of transistory aluminum reactors of VL60 electric locomotives. Elek. i tepl.tiaga 7 no.11:18-20 N '63. (MIRA 17:2)

1. Rukovoditel' gruppy otdela transformatornogo oborudovaniya Novocherkasskogo elektrozostroitel'nogo zavoda (for Shestakov). 2. Rukovoditel' gruppy Vsesoyuznogo nauchno-issledovatel'skogo instituta elektrozostroyaniya (for Zheleznyakov).

ZHELEZNYAKOV, A.T.; SHESTAKOV, A.N.

Calculation of bridge reactors for N-60 electric locomotives. Sbor.  
nauch. trud. Elnii 3:113-123 '63. (MIRA 17:4)

IVANOV, I.Ye.; SHESTAKOV, A.P.

Experience of the Dnepropetrovsk plant of food concentrates  
in equipment maintenance. Kons.i ov.prom. 18 no.2:19-20  
F '63. (MIRA 16:2)

1. Dnepropetrovskiy zavod pishchevykh kontsentratorov.  
(Industrial equipment—Maintenance and repair)  
(Dnepropetrovsk—Corn products)



SHESTAKOV, A.S.; OVSYANNIKOVA, Ye.N. [Ovsiannykova, IE.N.]

Use of natural gas in burners of ferrite soda furnaces  
and melting pots. Khim. prom. [Ukr.] no.2:76-77 Ap-Je '63.  
(MIRA 16:8)

1. Donetskij sodovyy zavod.

S/196/61/000/011/028/042  
E194/E155

AUTHOR: Shestakov, A.T.

TITLE: Determination of the edge temperatures of rotor cylinders during asynchronous starting of machines with solid rotors

PERIODICAL: Referativnyy zhurnal, Elektrotehnika i energetika, no.11, 1961, 25, abstract 11I 191. (Vestn. elektroprom-sti no.6, 1961, 29-30)

TEXT: A procedure of calculation has been developed which allows for the distribution of current over the thickness of the surface layer of the rotor that results from the current constriction effect. The instantaneous value of the heat evolved in the surface layer of thickness  $x$  of a rotor cylinder is given by the formula:

$$Q_x = 0.24 \int_0^t \left( \frac{M_c s n_0}{975} + \frac{GD^2 n}{3600} \cdot \frac{dn}{dt} \right) (1 - e^{-2kx}) dt,$$

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Determination of the edge temperatures... S/196/61/000/011/028/042  
E194/E155

where:  $M_c$  - the static load torque, kg.m;  $s$  - slip;  
 $n_c$  - synchronous speed, r.p.m;  $GD^2$  - flywheel torque of system,  
 kg.m<sup>2</sup>;  $l$  - rotor length, cm;  $k = \sqrt{\omega p \mu / 2 \rho}$ ;  $p$  - the angular  
 speed of the rotor, radians/sec;  $\mu$  - the magnetic permeability  
 of the rotor steel in which changes during the starting time are  
 negligible;  $\rho$  - the specific resistance of the rotor steel,  
 ohm.mm<sup>2</sup>/m; The method was used to determine the surface layer  
 temperature for a motor type CTM-1500-2 (STM-1500-2) for a pump  
 type 14N12 x 2 (14N12 x 2) with a total flywheel torque of  
 0.29 T.m<sup>2</sup>. The thickness of the surface layer was taken to be  
 0.5 mm, the calculated temperature was 103° and the test  
 temperature 90 °C. ✓

[Abstractor's note: Complete translation.]

Card 2/2

SHESTAKOV, A.V., inzhener.

Effect of node point rigidity on stress in a 22 meter prestressed  
reinforced concrete bridge span truss. Trudy Khab.IIT no.7:23-36 '54.  
(MLRA 8:1)

(Bridges, Concrete) (Structural frames) (Concrete, Prestressed)

124-57-2-2485D

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 2, p 137 (USSR)

AUTHOR: Shestakov, A. V.

TITLE: Analysis of the Working of Massive Non-hinged Bridge Arches  
Subjected to a Temporary Loading (Theoretical Investigation)  
[ Analiz raboty massivnykh bessharnirnykh mostovykh svodov  
pod vremennoy nagruzkoy. (Teoreticheskoye issledovaniye) ]

ABSTRACT: Bibliographic entry on the author's dissertation for the degree  
of Candidate of Technical Sciences, presented to the Leningr. in-t.  
zh. -d. transp. (Leningrad Institute for Rail Transportation En-  
gineering), Leningrad, 1956

ASSOCIATION: Leningr. in-t inzh. zh. -d. transp. (Leningrad Institute for  
Rail Transportation Engineering), Leningrad

1. Structures--Stresses

Card 1/1

SHESTAKOV, A.V., assistant.

Effect of delineating the axis of an unarticulated bridge span  
subject to stress of temporary loading. Trudy Khab.IIT no.9:  
112-166 '56. (MLRA 9:12)

(Arches)

FILIN, A.P., doktor tekhn. nauk prof. (Leningrad); SHESTAKOV, A.V.,  
kand. tekhn. nauk (Khabarovsk)

Characteristic shape of bridge arches and vaults. Issl. po teor.  
sooruzh. no.8:407-415 '59. (MIRA 12:12)  
(Bridges--Design)

SHESTAKOV, A.V., kand.tekhn.nauk, dotsent (Khabarovsk)

Effect of the nature of rigidity distribution along the axis of a  
nonhinged bridge arch on strains from a live load. Issl. po teor.  
sooruzh. no.10:222-237 '61. (MIRA 14:8)  
(Bridges--Design)



SHESTAKOV, B., inzhener

Load characteristics of a municipal gas network in changing to  
gas-heating stoves. Zhil.kom. khoz. 5 no.2:11-12 '55.

(MIRA 8:6)

(Gas--Heating and cooking)

SHESTAKOV, B., inzh.

Devices for easy starting of engines in winter. Avt. transp. 37  
no.2:23-25 F '59; . (MIRA 13:1)  
(Motortrucks--Cold weather operation)

GORBACHEVSKIY, V.; SHESTAKOV, B.; SAMODOV, G.

Vehicles for transporting long pipes. Avt. traps. 39 no.10:15-  
17 0 '61. (MIRA 14:10)

(Pipe—Transportation)

GORBACHEVSKIY, Viktor Andreyevich; LESHKEVICH, Andrey Ivanovich;  
MIKHAYLOVSKIY, Yuriy Vsevolodovich; SHESTAKOV, Boris  
Aleksandrovich; MEDNIKOV, I.N., retsenzent; MOROZOV, K.P.,  
retsenzent; KHASMAN, P.Ya., otv. red.; PLESKO, Ye.P., red.;  
GRECHISHCHEVA, Z.I., tekhn. red.

[Fundamentals of lumbering and the operation of machines and  
mechanisms] Osnovy lesozagotovok i ekspluatatsia mashin i me-  
khanizmov. V.A.Gorbachevskii i dr. Moskva, Goslesbumizdat,  
1961. 319 p. (MIRA 15:2)  
(Lumbering—Machinery)

GORBACHEVSKIY, Viktor Andreyevich; GAL'PERIN, Zinoviy Samoylovich  
Gal'perin; KLYCHKOV, Pavel Dmitriyevich; LAKH, Yevgeniy  
Ivanovich; LEKSAU, Igor' Nikolayevich; PRASOLOV, Boris  
Aleksandrovich; RYZHKOV, Aleksey Nikolayevich; SUKHARNIKOV,  
Iosip Osipovich; SHESTAKOV, Boris Aleksandrovich; ALPATSKIY,  
I.V., red.; PLESKO, Ye.P., red.izd-va; GRECHISHCHEVA, V.I.,  
tekhn. red.

[Utilization of logging truck transportation] Eksploats-  
tsiia lesovoznogo avtomobil'nogo transporta. [By] V.A.  
Gorbachevskii i dr. Moskva, Goslesbumizdat, 1962. 296 p.  
(MIRA 16:5)

(Lumber--Transportation) (Tractor trains)

SHESTAKOV, B.A.

Kinematic inadequacy of blocked wheel drive with an active breaking  
up and the 4X2-type motor vehicles. Avt.prom. 31 no.5:13-17 My '65.  
(MIRA 18:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut mekhanizatsii  
i energetiki lesnoy promyshlennosti.

VARBOT, Zh.F., inzh.; SHESTAKOV, B.I., inzh.

Photoelectron devices for control of street lighting.  
Energetik 8 no.2:3-4 F '60. (MIRA 13:6)  
(Street lighting)

KAIPOV, R.L.; ZIV, D.M.; LEYPUNSKAYA, D.I.; SAVOSIN, S.I.; FEDOROV, V.V.;  
FRADKIN, G.M.; SHIMELEVICH, Yu.S.; BASIN, Ya.N.; KUKHARENKO, N.K.;  
SHESTAKOV, B.I.

Use of Ac - Be neutron sources in industrial geophysics. Atom energ.  
16 no.3:269-270 Mr '64. (MIRA 17:3)



11(2)

SOV/112-59-3-4444

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 3, p 23 (USSR)

AUTHOR: Shestakov, B. I.

TITLE: On the Problem of Flameless Combustion of Natural Gas  
(K voprosu o besplamennom szhiganii prirodnogo gaza)

PERIODICAL: Sb. nauchn. tr. Kuybyshevsk. industr. in-ta, 1957,  
Nr 7, pp 149-156

ABSTRACT: Flameless combustion reduces to a minimum the chemical and mechanical unburned loss, air excess, reduces the losses from  $q_2$ , raises the average temperature gradient, reduces furnace size, etc. Among its disadvantages are reduction of direct heat transfer and narrowing the range of stable gas burning along with an increase of the primary-air share. To ensure stable combustion, gas-air mixture is considerably preheated, or combustion stabilizers are used, or the direct heat transfer from the combustion zone is reduced. For burning naphthenic hydrocarbons (natural gases), which burn

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11(2)

SOV/112-59-3-4444

On the Problem of Flameless Combustion of Natural Gas

with much more difficulty than simple gases ( $\text{CO}$ ,  $\text{H}_2$ ,  $\text{C}_2\text{H}_2$ ), a careful gas-air premixing is necessary, as well as a preheating of gas-air mixture and cutting of air excess down to zero. Visible flame is mostly a result of unburned loss of the fuel mass. In burning the natural gas from Pokhvistnevo-Buguruslan fields, the following values were investigated: optimum theoretical combustion temperature, average effective furnace temperature, degree of screening, blackness of the flame ( $a_f$ ). The limit  $a_f$  0.182 is not lower than for other types of fuel.

A.B.M.

Card 2/2

SHESTAKOV, B. I.: Master Tech Sci (diss) -- "Heat exchange in the combustion chamber in flameless combustion of high-calorie natural gases". Kuybyshev, 1958. 24 pp (Min Higher Educ USSR, Kuybyshev Industrial Inst im V. V. Kuybyshev), 150 copies (KL, No 17, 1959, 109)

KUDRYASHEV, L.I., doktor tekhn.nauk, prof.; SHESTAKOV, B.I., dots.

Method of calculating heat transfer in furnaces. Izv. vys.ucheb.zav.;  
energ. no.6:75-79 Je '58. (MIRA 11:9)

1.Kybyshhevskiy industrial'nyy institut im. V.V. Kuybysheva.  
(Heat--Transmission) (Furnaces)

NIKOL'SKIY, B.P.; ZIV, D.M.; SHESTAKOV, B.I.; SINITSYNA, G.S.

Effect of the nature and concentration of acid on the value  
of the electrode potential of polonium. Trudy Radiev.inst.  
AN SSSR. 8:153-157 '58. (MIRA 12:2)  
(Polonium) (Acids) (Electromotive force)

SHESTAKOV, B.I., dots.

Role of convective heat exchange in the furnaces of boilers. Izv.vys.  
ucheb.zav.; energ. no.12:78-82 D: '58. (MIRA 12:3)

1. Kuybyshevskiy industrial'nyy institut imeni V.V.Kuybysheva.  
(Furnaces)

SHESTAKOV, B.I., dotsent

Heat exchange in boiler furnaces in the flameless burning of  
gases of high calorific value. Sbor. nauch. trud. Kuib. indus.  
inst. no.8:151-165 '59. (MIRA 14:7)  
(Heat--Transmission) (Furnaces) (Gas as fuel)

ZHUKOV, A.M., inzh.; KUCHUGURENKO, A.P., dotsent, kand. tekhn. nauk;  
MURAV'YEV, V.D., inzh.; UVAROV, G.A., dotsent, kand. tekhn. nauk;  
FEDOROV, V.N., inzh.; SHESTAKOV, B.I., dotsent

Investigating combusting pulsations during burning of Kashpir shale  
in furnaces with shaft-type impact mills. Izv. vys. ucheb. zav.; energ.  
2. no.10:53-59 0 '59. (MIRA 13:3)

1. Kuybyshevskiy industrial'nyy institut imeni V.V. Kuybysheva.  
Pred. avlensya sektsiyey prikladnoy teplotekhniki.  
(Oil shales)



BELOUSOV, V.M., inzh.; VIDMANOV Yu.I., inzh.; STEPANYAN, A.A., inzh.  
UVAROV, G.A., kand.tekhn.nauk; FEDOROV, V.N., inzh.; SHESTAKOV,  
B.I., kand.tekhn.nauk

Measuring devices and methods for measuring pulsations in boiler  
furnace systems. Izv. vys. ucheb. zav.; energ. 4 no.3:49-52  
Mr '61. (MIRA 14:3)

1. Kuybyshevskiy industrial'nyy institut imeni V. V. Kuybysheva.  
Predstavlena kafedroy teploenergeticheskikh ustanovok.  
(Transducers) (Boilers)

UVAROV, G.A., kand.tekhn.nauk; SHESTAKOV, B.I., kand.tekhn.nauk;  
FEDOROV, V.N., inzh.; GOPKO, M.K., inzh.; ANDREYEV, G.B., inzh.  
ORLOV, A.V., inzh.

Simultaneous burning of anthracite culm and gas with different  
methods for supplying the gas to the furnace. Teploenergetika  
8 no.4:52-57 Ap '61. (MIRA 14:8)

1. Kuybyshevskiy industrial'nyy institut i Kuybyshevenergo.  
(Furnaces)

VARBOT, Zh.F.; SHESTAKOV, R.I.

Circuits for the automatic switching-in of reserves at municipal  
street lighting transformer points. Prom. energ. 16 no.4:6-8  
Ap '61. (MIRA 14:9)

(Electric power distribution)  
(Street lighting)

SHESTAKOV, B.I.; GUS'KOV, V.S.

Conditioned phagocytic and oculocardiac reflex in schizophrenics.  
Trudy Ver. med. inst. 51:177-181 '63.

(MIRA 18:10)

1. Kafedra psikiatrii Veronezhskogo meditsinskogo instituta.

SHESTAKOV, B.I.

Oculocardiac reflex in schizophrenics. Trudy Vor. med. inst. 51:182-  
187 '63. (MIRA 18:10)

1. Kafedra psikhiiatrii Voronezhskogo meditsinskogo instituta.

SHENTANOV, D. I.

Work practice of efficiency workers on combine-tractor stations. Sverdlovsk, Gos.  
nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry (Uralo-Sibirskoe otd-anie).  
1953. 3p. (Biblioteka mekhanizatora sel'skogo khoz-istva) (55-15077)

S/CO.R9846

DRUKOVANYI, M.F., kand. tekhn. nauk; YEFREMOV, E.I., gornyy inzh.;  
TERESHCHENKO, A.A., gornyy inzh.; SHESTAKOV, F.K., kand. tekhn.  
nauk; MALYY, I.S., gornyy inzh.

Crushing of rocks in blasting paired benches in the Central and  
Ingulets Mining and Ore Dressing Combines in the Krivoy Rog  
Basin. Vzn'yv. delo no.53/10:147-156 '63. (MIRA 16:8)

1. Otdel gornorudnykh problem AN UkrSSR (for Drukovanyy,  
Yefremov). 2. Tsentral'nyy gornoobogatitel'nyy kombinat  
(for Tereshchenko, Shestakov). 3. Inguletskiy gornooboga-  
titel'nyy kombinat (for Alekseyev, Malyy).  
(Krivoy Rog Basin--Blasting)

ZHIROV, K.K.; SHESTAKOV, G.I.; IVANOV, I.B.

Interpretation of age figures obtained by the lead method.  
Geokhimiia no.1:49-55 '61. (MIRA 14:3)

1. Institute of Geochemistry Siberian department of the  
Academy of Sciences, U.S.S.R.  
(Lead—Isotopes)  
(Geological time)



SHESTAKOV, G.I.; IVANOV, I.B.

Graphic method of studying age discrepancies by the lead-uranium  
ratios. *Geokhimiia* no. 3:239-242 '61. (MIRA 14:4)

1. Institute of Geochemistry of the Siberian Branch, Academy of  
Sciences, U.S.S.R. (Geological time) (Lead) (Uranium)

S/007/62/000/006/002/002  
3107/3101

AUTHORS: Zhurov, K. K., Shestakov, G. I., Ivanov, I. B.

TITLE: Letter to the Editor

PERIODICAL: Geokhimiya, no. 6, 1962, 546

ABSTRACT: In amplification of a previous paper (Geokhimiya, no. 1, 1961) the authors state that in the case of simultaneous loss of Pb and U(Th) from a mineral the total effect must be calculable from the equation:

$Pb/U = \exp(\lambda t) - 1 - \frac{[1-n]/[1-m]}{[1-n]/[1-m]} [\exp(\lambda t) - \exp(\lambda T)]$ , whence an expression for  $Pb^{207}/Pb^{206}$  can be derived. If the loss factors for lead and uranium (thorium) are equal (i. e., with  $n = m$ ) this becomes  $Pb/U = \exp(\lambda T) - 1$ . These conclusions and the related diagrams in the above-mentioned paper can be used only to compare two minerals, one without loss of lead and the other without loss of uranium (thorium).

Card 1/1

SHESTAKOV, G.N.

Well-head trough for the installation of PKR-U7 pneumatic spiders on separate blocks without hoisting the drilling rig foundations. Neft. khoz. 41 no.6:54-56 Je '63. (MIRA 17:6)

SHESTAKOV, I.

Aleksandr Vorontsov's millions. Izobr.i rats. no.9:5 S '60.  
(MIRA 13:10)

1. Chlen informatsionno-izdatel'skoy seksii oblastnogo soveta Vsesoyus-  
nogo obshchestva izobretateley i ratsionalizatorov, g.Saratov.  
(Saratov--Bearing industry--Technological innovations)

SHESTAKOV, I.

At the Belgorod-Dniestrovskiy Milling Combine. Muk.-elev. prom. 28 no.8:  
17-18 Ag '62. (MIRA 17:2)

1. Sekretar' Belgorod-Dnestrovskogo gorodskogo komiteta Kommunistiches-  
koy partii Sovetskogo Soyuza.

BERGELSON, I.G. (Moskva); NEDOLUZHKO, I.G. (Moskva); SHESTAKOV,  
I.A. (Moskva)

Remarks on questions of terminology in transistor electronics. Izv. vzb. ucheb. zav.; radiotekh. 2 no.6:747-750 N-D  
'59. (MIRA 13:6)

(Transistors--Terminology)

PHASE I BOOK EXPLOITATION

SOV/NOVA

Shes TA Kov I A.

Poluprovodnikovye pribory i ikh primeneniye; sbornik statey, 1971, 4. (Semiconductor devices and their Applications) Collection of articles, 1971, 4. Moscow, Izdatel'stvo Svyaznoye radio, 1960. 311 p. Errata slip inserted. No. of copies printed not given.

24. (Title page); Ye. A. Fedotov; Ed. (Inside book); I. M. Volkov; Tech. Ed.: A. S. Serezhnikov; Editorial Board: Ye. A. Fedotov (Resp. Ed.), S. A. Barabanov, L. G. Baral'son, A. M. Brodyu, Ye. I. Gal'perin (Deputy Resp. Ed.), Yu. A. Komastkiy, S. Y. Kuzov, A. V. Kravtsov, M. A. Kuznetsov, I. Y. Nikolayevskiy, N. A. Reish, and I. P. Sposobin.

PURPOSE: This collection of articles is for technicians and scientists working in the field of semiconductor devices.

COVERAGE: These articles cover the following problems: physical processes occurring in semiconductor diodes and transistors; transistor parameters and methods and instruments for measuring them; special features of transistor operation in amplifying and oscillating circuits; and circuits and systems utilizing transistors. Several articles mention personalities. References accompany most articles.

263. Kuznetsov, M. A., V. S. Loytsin, and G. M. Novichikhin. Method of measuring  $\beta$ -parameter of thin transistors with 3-millivolt temperature amplitude. The method proposed uses static transistor characteristics obtained under various temperatures.

307. Fedorov, Ye. T., and Ye. I. Kuznetsov. Diagram of Phase Automatic Frequency Control in Semiconductor Components. The circuit is examined, selection of components considered, and some experimental results are given.

378. Mal'ko, G. B. Analysis of the Operation of a Transistorized Square-Wave Voltage Generator. The article examines the operating principle of a push-pull blocking oscillator using transistor triodes with a saturable transformer.

398. Zakharyov, Yu. K. Use of Transistors For D-C Conversion. The article contains experimental data on the use of transistors for d-c converters.

308. Osherenko, G. I. Calculation of Rectilinear Sawtooth Current in a Transistor Triode Oscillator. The article describes the method of calculating the rectilinear sawtooth current of a television scanning oscillator using transistors. Specifications are given for deflecting coils of vidicon type camera tubes.

323. Yakovlev, V. K. Research on a Junction Transistor Blocking Oscillator. The article describes processes occurring during the formation of the pulse peak. Conditions for blocking oscillator self-excitation are examined and the formula for determining pulse duration is derived. Processes in delay line blocking oscillators are analyzed and formulas are given for calculating delay line parameters.

340. Smolobryuk, I. A. Blocking-Oscillator Using Saturable Transistor. Processes occurring in a blocking-oscillator using junction triode operation under saturation conditions analyzed. The article demonstrates that transistor parameters have no substantial effect on pulse shape.

357. Kulya, V. I. Operation Analysis of a Symmetrical Multivibrator Using Junction Transistors. Basic ratios for design of multivibrators under various operating conditions are derived on the basis of a simplified multivibrator circuit using a junction transistor.

367. Yakovlev, V. K. Comparative Evaluation of Multivibrators Using Point-Contact Transistors, and Fields of Their Application. Special features of pulse oscillators using point-contact transistors are examined.

374. Mityuk, M. G., and N. I. Shimov. D-C Multivibrator Using Junction Triodes. A device for measuring low constant e.m.f. sources is described.

396. Babayevskiy, L. Z. Transistor Phase Memory for the Infra-Red Spectroscopic Frequency Band. Three types of phase meter transistor circuits are described.

406. Vasil'yev, V. P. Indication of the Status of a Decade Transistor Counter By Means of Incandescent Lamps. A decade counter based entirely upon semiconductor devices is described.

414. Grishchich, V. A. Design of a High Speed Digital Computer Arithmetic Unit Using Junction Transistors. The unit, which uses transistors of the P 16 type, was successfully tested.

AVAILABLE: Library of Congress

S/194/61/000/001/036/038  
D216/D304

9.2560

AUTHOR: Shestakov, I.A.

TITLE: A saturating transistor-triode blocking oscillator

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 1, 1961, 36, abstract 1 K297 (V Sb. Poluprovodnik. pribory i ikh primeneniye, no. 4, M., Sov. radio, 1960, 340-356)

TEXT: An analysis is made of the processes occurring in a blocking-oscillator utilizing the saturation of a junction transistor triode. It is shown that the parameters of the triode have little effect on the pulse shape. From the analysis of comparatively simple equivalent circuits the relationships between the pulse parameters and repetition-frequency is derived. Possible configurations of the blocking oscillator circuit are discussed. The discrepancy between the calculated and experimental pulse shape does not exceed 15 to 30% (in many cases 2 - 5%) for the currents range from 10 mA to 8 amp and for pulse durations from 5 to 2000 microsec.  
Card 1/2

1  
B



A saturating transistor-triode...

6 references.

S/194/61/000/001/036/038  
D216/D304

B

Card 2/2

S/181/61/003/001/037/042  
B102/B204

AUTHORS: Bredov, M. M., Lepilin, V. A., Shestakov, I. B., and  
Shakh-Budagov, A. L.

TITLE: The effect produced by the type of ions upon the character  
of the change in the electrical properties of a semi-  
conductor surface during its irradiation by ions of medium  
energy

PERIODICAL: Fizika tverdogo tela, v. 3, no. 1, 1961, 267-274

TEXT: The effect produced by ion bombardment upon the surface properties  
of semiconductors has hitherto not been sufficiently investigated; above  
all, nothing is known about the effect produced by the type of ions, i. e.,  
the most contradictory opinions have been expressed (Refs. 2 and 4). A  
study of these questions is of both basic and practical value. If, e.g.,  
the effect of bombardment does not depend on the type of ions, the effect  
would have to be considered to be purely microthermal, and in the  
opposite case, to be microchemical. Experiments, described in earlier

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The effect produced by the type of ions...

S/181/61/003/001/037/042  
B102/B204



papers uniquely proved that different effects are produced by different ions. The present paper deals with a study of the volt-ampère characteristics of W-Ge and W-Si point contacts in the irradiation with atomic oxygen ions and molecular nitrogen ions of 5 and 10 kev. The experimental conditions were chosen in such a manner that an answer to the especially interesting questions (change in carrier mobility, carrier concentration of the scattering centers) could be expected. Theoretical considerations in this direction are discussed in detail; they led to the conclusion that an investigation of the volt-ampère characteristics of point contacts (investigation of direct and reverse currents and of the rectification constant between semiconductor and metal may supply the required information in a bombardment with ions of 5-10 kev. The radiation dose was varied within the range of from  $10^{11}$ - $10^{15}$  ions/cm<sup>2</sup>. The experiments were carried out by means of the mass separator described in Ref. 3. The ion source was gaseous (impact ionization); the irradiated specimens were n-type Ge and Si single crystals with a concentration ratio of the carriers of  $n/n_0 = 1 \cdot 10^{-9}$  and  $7 \cdot 10^{-9}$ , respectively. The individual measurements were repeated with due

Card 2/6

The effect produced by the type of ions...

S/181/61/003/001/037/042  
B102/B204

frequency in order to keep the statistical error at a minimum. The results were evaluated according to M. O. Kornfel'd. Measurements are illustrated in Figs. 3 and 4. Fig. 3 shows the ratio of the rectification constant after irradiation to its value before irradiation as a function of the radiation dose for 5- and 10-kev ions. The difference between the effect of O and N<sub>2</sub> ions is obvious. Whereas N<sub>2</sub> ions do not change the carrier concentration considerably and increase the defect density only slightly (thus somewhat increasing the ohmic resistance), O ions increase the rectification constant (i.e., by forming a p-n junction in the "active zone" of the specimens, because the penetrating oxygen atoms act as acceptors). The rectification constant has a maximum at a certain dose (which is due either to a removal of the region of defect-carrier equilibrium from the active zone of the probe, or to an increase of the lattice defects, or to both). Fig. 4 shows the dependence of direct and reverse currents and rectification constant on the radiation dose N<sub>0</sub> (irradiation by 10-kev O and N<sub>2</sub> ions). The true value lies in the hatched region. There are 4 figures, 1 table, and 10 references: 5 Soviet-bloc and 5 non-Soviet-bloc.

Card 3/6

The effect produced by the type of ions...

S/181/61/003/001/037/042  
B102/B204

ASSOCIATION: Institut poluprovodnikov AN SSSR Leningrad (Institute of Semiconductors, AS USSR, Leningrad)

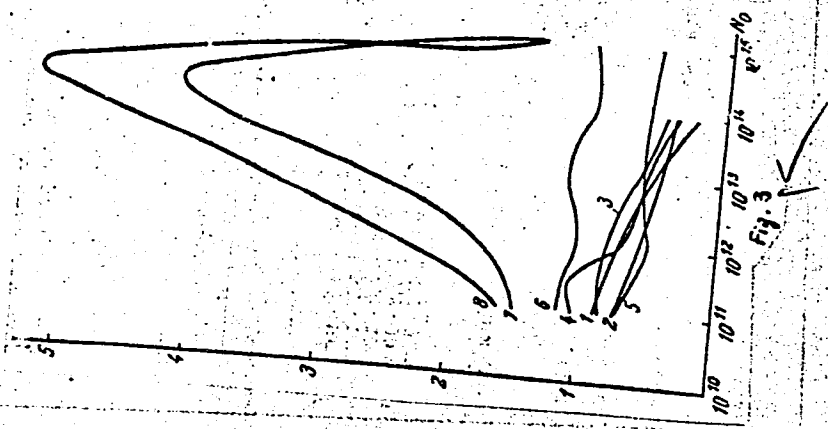
SUBMITTED: July 19, 1960

Card 4/6

The effect produced by the type of ions...

S/181/61/003/001/037/042  
B102/B204

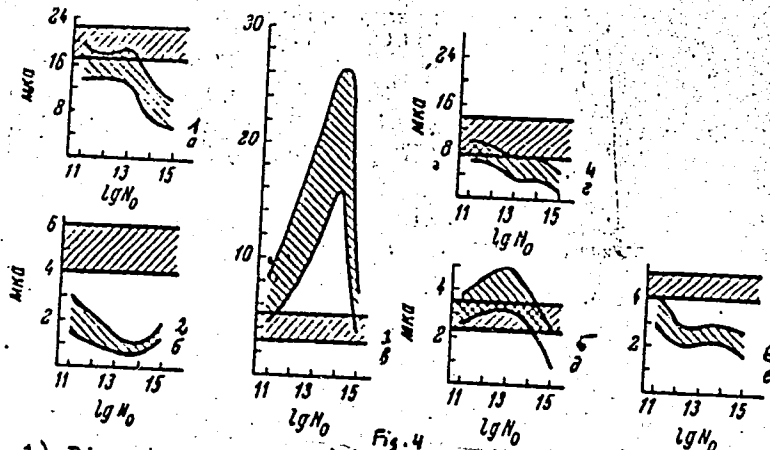
Legend to Fig. 3: 1) 10 kv, N<sub>2</sub> on Ge; 2) 5 kv, N<sub>2</sub> on Ge; 3) 5 kv, 0 on Ge; 4) 10 kv, 0 on Ge; 5) 5 kv, N<sub>2</sub> on Si; 6) 10 kv, N<sub>2</sub> on Si; 7) 5 kv, 0 on Si; 8) 10 kv, 0 on Si.



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The effect produced by the type of ions...

S/181/61/003/001/037/042  
B102/B204



Legend to Fig. 4: 1) Direct current, 2) reverse current, 3) rectification constant in bombarding with O; 4)-6) the same in bombarding with N<sub>2</sub>. The horizontal hatched band gives the true value before irradiation.

Card 6/6

UPKIN, G.A.; SHESTAKOV, I.I.

Multiple manufacture of springs. Mashinostroitel' no.11:23 N '60.  
(MIRA 13:10)

(Spring (Mechanism))



KAZHLAYEV, Nikolay Georgiyevich; SHESTAKOV, I.K., red.; LUKASHEVICH, V.,  
tekh.red.

[Potentialities for greater production in capital construction]  
Rezervy proizvodstva v kapital'nom stroitel'stve. Saratov,  
Saratovskoe knizhnoe izd-vo, 1959. 209 p.

(MIRA 14:1)

(Precast concrete construction)  
(Construction industry--Accounting)

MOISTURE CONDITION IN ORDINARY HEAVY CHERNOZEM SOIL  
UNDER PRINCIPAL FIELD CULTIVATION IN MOLDAVIA. \* (Dissertations for Degrees  
in Science and Engineering Defended at USSR Higher Educational Institutions)  
Institute of Higher Education USSR, Mikhinev State U., Mikhinev, 1955

SO: Trizhava Letopis', No. 25, 13 Jun 55

\* For Degree of Doctor of Biological Sciences

USSR/Soil Science. Soil Genesis and Geography

J-2

Jbs Jour : Ref Zhur - Biol., No 20, 1958, No 91359

Author : ~~Shastakov I.L.~~

Inst : Moldavian Affiliate of the AS USSR.

Title : Agro-meliorative Characteristics of Small River Valley Soils  
in the Central Part of the Moldavian SSR

Orig. pub : Izv. Mold. fil. AN SSSR, 1957, No 9, (42), 55-71

Abstract : The findings are set forth of a study of the properties of low-fertility soils in the bottom lands of small rivers: flood-land-marsh, meadow-marsh, flood-land-solonchak, flood-land-meadow and chernozem soils. Described are the morphology of the soils, the hydro-physical properties, the content of humus, CO<sub>2</sub> and water-soluble salts in the soils. The ordinary chernozems, meadow chernozems and meadow soils are recommended for use in growing vegetables and fodder crops. In order to bring into cultivation the muddy-marsh and meadow-marsh solonchak soils with near ground waters it is recommended that they be drained. The meadow solonchaks and

Card : 1/2

SHESTAKOV, I.L.

Bare fallows in Moldavia. Zemledelie 8 no.7:86-88 JI '60.  
(MIRA 13:9)

1. Pochvennyy institut imeni N.A.Dimo Moldavskogo filiala AN SSSR.  
(Moldavia-- Fallowing)

SHESPAKOV, I. I.

"Impairment of Articulation Due to the Loss of Teeth in Cases With or Without Parodontitis,"  
Stomatolgiya, No. 2, 1948.

L 42870-66 EWT(1)/T-2 WW/GD

ACC NR: AT6028561

SOURCE CODE: UR/0000/66/000/000/0204/0216

AUTHOR: Shestakov, K. N.

ORG: none

TITLE: The problem of hydraulic similarity of centrifugal pumps

SOURCE: Lopatochnyye mashiny i struynnye apparaty (Vane machinery and jet apparatus); sbornik statey, no. 1. Moscow, Izd-vo Mashinostroyeniye, 1966, 204-216

TOPIC TAGS: centrifugal pump, fuel supply, fuel pump, *HYDRAULICS*

ABSTRACT: The desions of high-hydraulic-head, high-capacity centrifugal pumps and the conditions under which experiments with pump models and at reduced velocities can be used by designers are investigated. It was assumed that, under certain conditions, there is a flow similarity in pumps at different circumferential velocities as well as with geometrically similar changes in the pump dimepsions. Experiments were conducted with seven centrifugal and axial-centrifugal pumps of various parameters (inlet diameters, 0.4—0.7; impeller-blade exit angle, 20—55°; five blades; critical speeds 50—150). The effects of the circumferential velocity of the centrifugal impeller and the effect of the absolute pump dimensions on pump parameters were studied. The following results were obtained: 1) Dimensionless hydraulic-head characteristics of the pumps did not change during operation at various rpm as well as with geometrically similar changes in pump dimensions at  $Re \geq 0.3 \cdot 10^6$  in the

Cord 1/2

UDC: 629.13.03:621.454:621.515

36  
BT/

L 42870-66

ACC NR: AT6028561

impeller. 2) The similarity of cavitational phenomena at the centrifugal impeller inlet remained unchanged as the rpm changed. Orig. art. has: 10 figures. [BP]

SUB CODE: 13, 11/ SUBM DATE: 06Apr66/ ORIG REF: 002 *ATD PRESS 5066*

Card

212

*hh*

MAKAROV, V.G.; FINKEL', S.M.; SHESTAKOV, K.T.; SPARCHAKOVA, I.I.,  
red.; KISELEVA, A.A., tekhn.red.

[Accounting in state commerce] Bukhgalterskii uchet v gosudarstvennoi torgovle. Moskva, Gos.izd-vo torg.lit-ry, 1960.  
252 p. (MIRA 14:3)

(Accounting)



LARIONOV, L.A.; SHESTAKOV, L.Ya.

Comparative testing at the Dzhezkazgan ore dressing plant of  
"Mekhanobr-6a" and "Sikhali" flotation. TSvet.met. 35 no.8:11-13  
Ag '62. (MIRA 15:8)  
(Flotation—Equipment and supplies)

SHESTAKOV, L.Ya.

Comparative testing of the "Sikhali" and "Mekhanobr-5"  
flotation machines at the "Sikhali" Combine ore dressing  
plant. Obog. rud 9 no.4:30-33 '64. (MIRA 18:5)

TITKOVA, E.N.; SHESTAKOV, L. Ya.; VINOKUROV, A.I.; SAPRYKIN, V.I.;  
LEBEDEV, I.M.

Intensification of the performance of flotation machinery in  
the dressing shops of the "Fosforit" Combine. Khim. prom. 41  
no. 12:926-928 D '65. (MIRA 19:1)

15-57-8-10387

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 8,  
p 3 (USSR)

AUTHORS: Mirskaya, M., Shestakov, M., Chudinova, I., Devingtal'  
V.

TITLE: N. P. Gerasimov (1898-1952) [N. P. Gerasimov (1898-  
1952)]

PERIODICAL: Uch. zap. Molotovsk. un-t, 1956, Vol 7, Nr 4, pp 279-  
281

ABSTRACT: Nikolay Pavlovich Gerasimov made a significant contri-  
bution to Soviet geology while occupying the chair of  
Historical Geology and Paleontology at Molotov Uni-  
versity. He was distinguished for his work in the  
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INVENTOR: Levin, B. G.; Yermin, N. I.; Plyuta, V. Ye.; Shestakov, M. I.;  
Vasil'yev, K. V.

ORG: none

TITLE: Method for manufacturing articles with variable cross section. Class 7,  
No. 188454

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 25

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*fabricated structural metal*

ABSTRACT: This Author Certificate introduces a method for manufacturing articles with variable cross section by cold rolling of a stationary blank with two undriven rolls. To improve the dimensional accuracy and the surface quality of the article the blank is rotated after each working cycle around the longitudinal axis for a programmed angle and the amount of feed is automatically changed.

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