OVCHARENIO, I.Eh., insh.

Calculation of an unflooded spillway with lateral pressure. Isv.vys. ucheb.sav.; energ. no.9:104-111 S'58. (MIRA 11:11)

1. Hovocherkasskiy inshenerno-meliorativnyy istitut. (Hydraulic engineering)

66174 sov/143-59-9-18/22 The Problem of Calculating High-Speed Flows of Rectangular Cross-Ovcharenko, I.Kh., Engineer 24(8) 10.2000 AUTHOR: Izvestiya vysshikh uchebnykh zavedeniy, Energetika, 1959, Nr 9, TITLES Section The basic differential equation for a steady-state irregular motion may be written in the following form (according to M.D. Cherpp 114-121 (USSR) PERIODICAL where dz = change of the coordinates of the free surface of the tousov (Ref.10)): - dz = dh_y + dh_f ABSTRACT : flow in an elementary section ds; dhy magnitude of pressure, used for creating a velocity in the section da; dhe friction losses. The integration of this equation was performed by many hydraulics experts in the USSR and abroad. The works of Soviet scientists are mentioned in this connections B.A. Bakhmetev (Ref. 2), N.N. Pavlovskiy (Ref. 9), I.1. Agroskin (Ref. 1), N.D. Chert su-Boy (Ref.10), M.M. Skiba (Ref.7) and others. The basic equation of an irregular motion and its integrals were established for the Card 1/4

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

66174 SOV/143-59-9-18/22

The Problem of Calculating High-Speed Plows of Rectangular Cross-Section

case of slowly changing motions, or the absence of centrifugal forces. In actual practice, there are frequently cases, where a flow, passing thru some structure, is deformed to such an extent that the model of a slowly changing motion may no longer be used. Centrifugal forces will appear, which are expressed in the aforementioned equation by dh_i , thus $-dz = dh_i + dh_i + dh_i$. (2)

The presence of the magn: le dh; complicates the integration of the equation to a considerable extent. There are attempts in solving this problem theoretically, for example G.I. Sukhomel (Ref.8), however, no results for practical use have been obtained. Taking into consideration the difficulty of solving this problem by theoretical methods, the author attempted to solve experimentally the case of a high-speed flow in a rectangular cross-section. These investigations dealt with sa) the determination of the degree of flow deformations in the cross-section of the model, depending on the compression of the flow upon entering; b) studies of generally known integrals of the equation (1) concerning their use in calculations of deformed flows; c) determination of empiric dependent

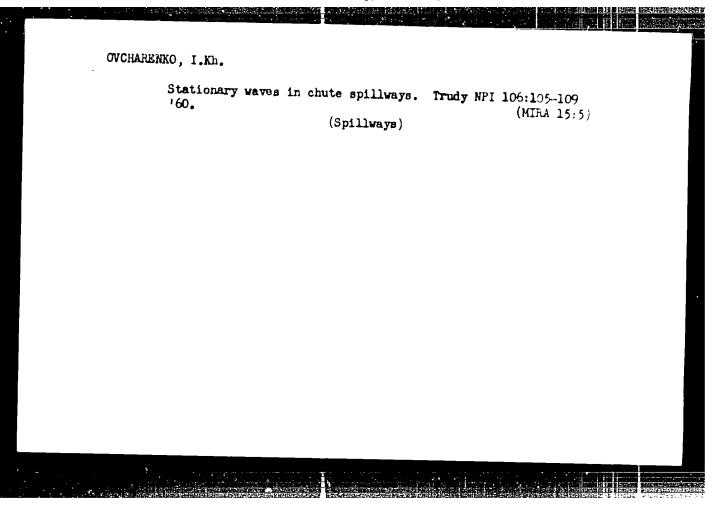
Card 2/4

sov/143-59-9-18/22

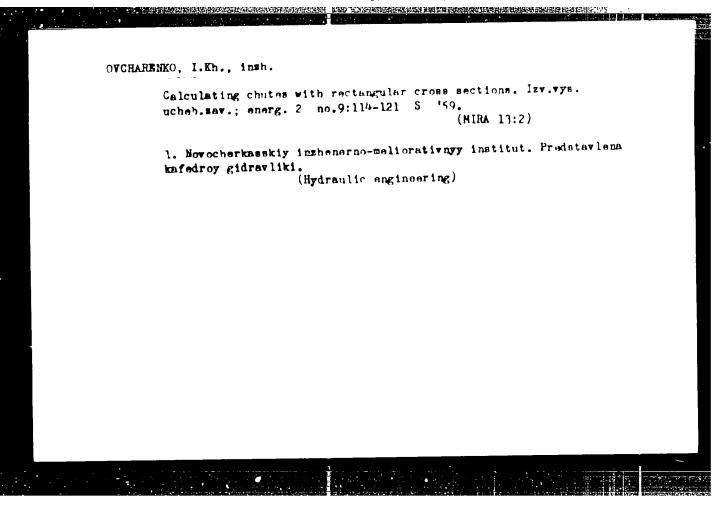
The Problem of Calculating High-Speed Flows of Rectangular Cross-Section

cies for calculating the depths in the cross-section. The investigations were performed at the Novocherkassk Institute of Melioration Engineering during 1957 and 1958 under the guidance of Candidate of Technical Sciences, Docent M.M. Skiba. A model of a high-speed flow was built especially for these investigations. Its plan is shown in fig.4. The dimensions of the model are listed. According to the method of Professor A.P. Berezinskiy (Ref. 3), only one half of the flow was investigated. The results of these investigations were compiled in seven sets of graphs. Deviations of theoretical values from experimental data are given in percentages. Using formulas of M.M. Skiba, I.I. Agroskin and Bussinska-Bakhmetev, the author derives a calculation method for the curves of a free surface in high-speed flows of rectangular profile. Experimental data of A.P. Segzhda (Ref.5) are mentioned in this connection. This paper was presented by the Kafedra gidravliki (Chair of Hydraulics). There are 2 diagrams, 7 sets of graphs, 2 tables and 10 Soviet references.

Card 3/4



OVCHARENKO, I. Kn., Cand. Tecn. Sci. (diss) "Investigation and Hydraulic Computation of "pystrotokov" of might-engle Section," Kiev, 1961, 31 pp. 'Kiev Automobile-Road Inst.) 180 copies (KL Supp 1 -21, 271).



SOV/14:-58:-16/18

THE RESIDENCE OF THE PROPERTY OF THE PERSON OF THE PERSON

AUTHOR:

Ovcharenko, I.Kh., Engineer

TITLE:

On Computing a Non-Flooded Spillway with a Lateral Compression (K voprosu o reschete nezatoplennogo

vodosliva s bokovym szhatiyem)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - Energetika,

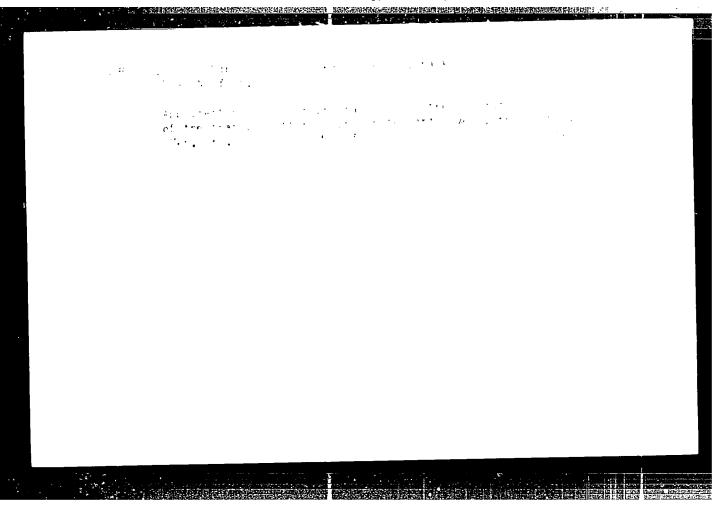
1358, Nr 3, pp 104-111 (USSR)

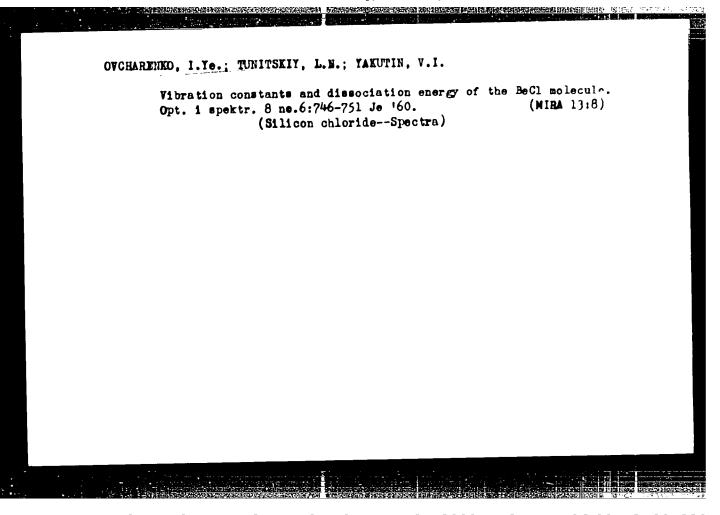
ABSTRACT:

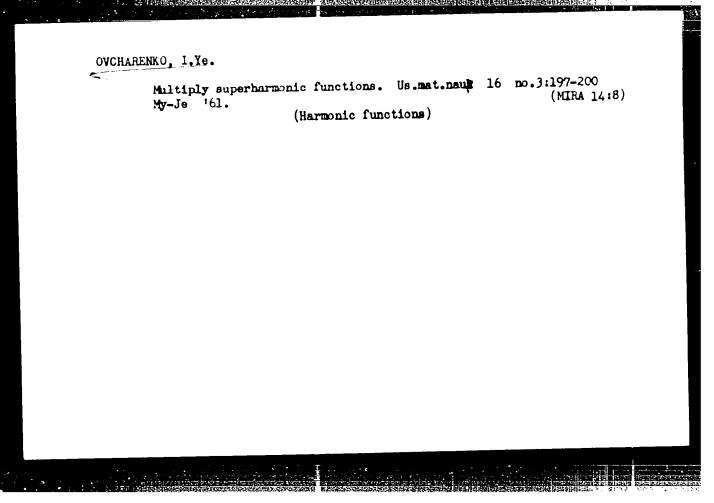
There are a number of works on this problem, all of which however, make further tests necessary. The author feels that the throughput capacity of a spillway is influenced by the following factors: a/ The degree of lateral compression; b) The proportional width of the spillway; c) The slope factor of the supply channel. Tests were made in the nyaraulic

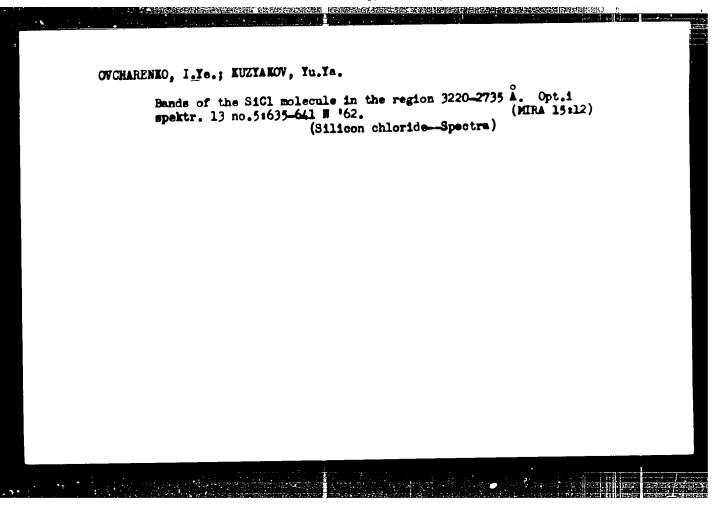
laboratory of the Novorcherkassk Amelioration ingineering Institute in 1957 under the direction of N.M.Skita. The tests and calculations show that the capacity of a spillway de; ends not only on the form of the sup, ly channel, but also on the slope factor of the channel

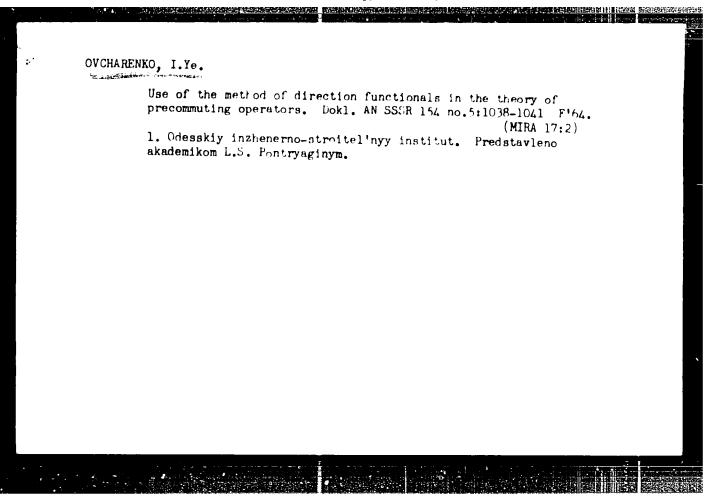
Card 1/2

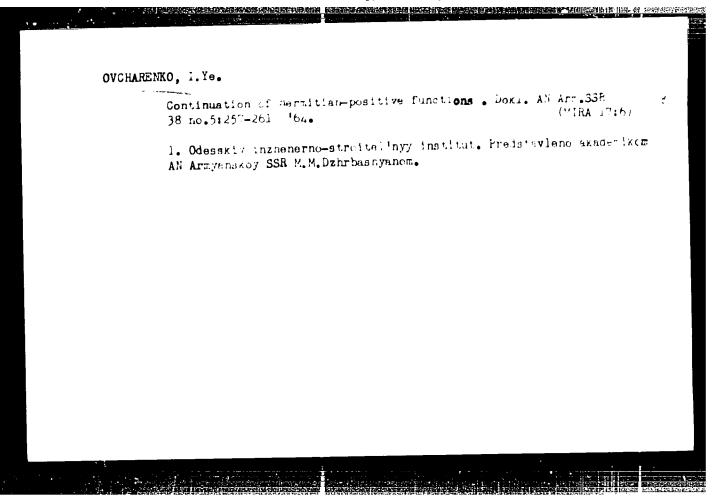


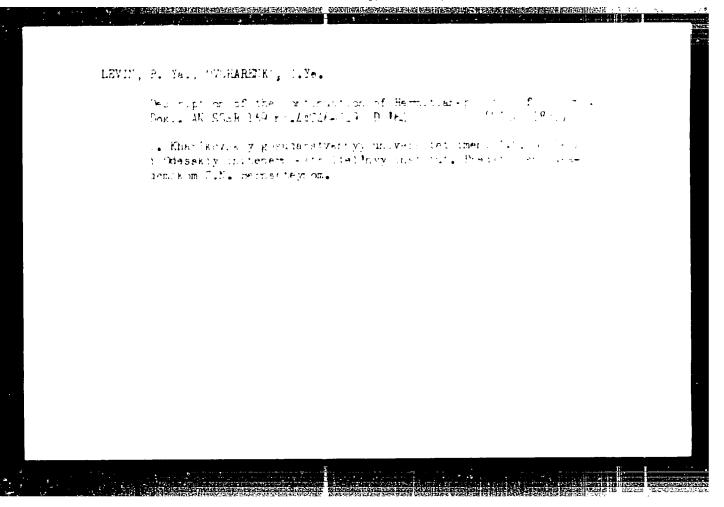












s/051/62/013/005/003/017 E202/E192

AUTHORS: Ovcharenko, I.Ye., and kuzyakov, Yu.Ya.

Card 1/2

TITLE: The bands of the SiCl molecule in the region of 3220 - 2735 Å

PERIODICAL: Optika i spektroskopiya, v.13, no.5, 1962, 635-641

TEXT: Using detailed experimental data from the zero lines and Deslandres' tables, the authors determined vibrational constants w_e ; $w_e x_e$ for the $B^2 \Sigma$; $\chi^2 \Pi V^2$ and $\chi^2 \Pi V^2$ states of the $Si^{28}C1^{35}$ and $Si^{28}C1^{37}$ molecules, in order to interpret further the bands of the B-X system in the region 2030-2770 Å, and to find in particular reliable vibrational constants for the and to find in particular reliable vibrational constants for the B² excited state. The SiCl₄ vapour discharge tube used was of the type used by H. Schuler (Spectrochim. Acta, v.4, 1950, b), the type used by H. Schuler (Spectrochim. Acta, v.4, 1950, b), various types of discharges in the SiCl₄ were tried to embrace the various SiCl bands. Low current density glow discharge was used to isolate the hitherto not described low intensity bands, e.g. an extensive Deslandres series with v'=2, and a large number of bands in the isotopic molecule. A special high current density,

The bands of the SiCl molecule in ... $\frac{5/051/62/013/005/003/017}{E202/E192}$

impulse discharge tube with a central constriction, previously described (I.Ye. Ovcharenko, I.N. Tunitskiy, V.I. Yakutin, optika i spektr. 8, 1960, 746), was used in exciting high vibrational levels to observe the bands with v'' = 8 and v' = 4.5 - also hitherto unobserved. In all, 16 new bands of the B-X system of the $Si^{26}Cl^{35}$, and 21 bands of the isotopic molecules, were identified and tabulated, reducing the wavelength in air to wavenumbers in vacuum by means of the kayser tables. The extensive transverse v' = 2 series and the bands (3,1), (4,1) and (5,2) yielded much higher accuracy in the determination of the vibrational constant of the upper excited state $B^2\Sigma$ and also served as a cross-check. There are 2 tables.

SUBMITTED: September 14, 1961

Card 2/2

9234 3/051/60/008/06/002/024 B201/B691

5.4130 AUTHORS: Ovcharento, I.Yo., Tunitskiy, L.N. and Yakutin, V.I.

ıΧ

TITLE

Analysis of the Fine Structure of the SiCl Molecular Bands

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 6, pp 746-751 (USSR)

Pour electron states ($X^2\Pi$, $B^2\Sigma$, $C^2\Lambda$ and $D^2\Sigma$) of the SiGl molecule are known (Refs 1-4). The vibrational constants of these four states ADSTRACT: were reported by Jevens (Ref 4) and are listed in Table 1; the constants with question marks were considered unreliable by Jevons. The present paper reports now values of the retational constants of the BZ, $I^2 \eta_{3/2}$, $I^2 \eta_{1/2}$ states, derived from the rotational analysis of the (1, 0), (0, 0) and (0, 1) bands of the $B^2\Sigma \to X^2\Pi$ transition. The spectra of SiCl were excited in a quarts pulse-discharge tube, similar to one used earlier (Ref 5) and shown schematically in a figure on p 746. The tube was filled with a mixture of silicon tetrachloride and helium. The spectra were photographed with a DFE-3 spectrograph in the third order (dispersion of 0.57 k/mm, resolving power of 432 000), and measured with a IZA-2 comparator (an iron are spectrum was used as the unvelength standard, cf. Table 2).

card 1/2

OVCHARENKO, L. I ADD Nr. 993-9 19 June

ENERGY AND DENSITY OF IONS IN AN ELECTROMAGNETIC TRAP (USSR)

Lavrent'yev, O. O., L. I. Ovcharenko, B. G. Safronov, V. O. Sidorkin, and B. A. Nemashkalo. Ukrayins'kyy fizichnyy zhurnal, v. 8, no. 4, Apr 1963, 452-459.

S/185/63/008/004/006/015

The conditions for the confinement of low-density plasma in an electromagnetic trap have been investigated. The density and lifetime of electrons, the density and energy of ions, and the magnitude of the potential well were measured. The density of electrons in the trap at the moment of space-charge formation was determined by the injection current of electrons. The density of electrons after termination of the injection was determined from the electron emission occurring while the electrostatic trap was open, and the mean energy of the emerging ions, by the retarded-potential method. The energy of the potential well was determined by the passage time of krypton ions through the inner region of the trap. The actual ion energy is the sum

Card 1/2

AID Nr. 993-9 19 June

ERERGY AND DENSITY OF IONS [Cont'd]

8/185/63/008/004/006/015

of the mean energy of the ions and the energy of the potential well. The ionic density was determined by the total number of ions emerging from all magnetic gaps and was of the order of 10²⁰/cm³. The results of the analysis are shown in graphs of the following: electron injection current versus time, electron density in the trap versus magnetic-field intensity, ion density versus injection-pulse duration, ion density versus magnetic field intensity, and mean energy of ions emerging from the trap versus 1) the energy of electrons and [JA]

Card 2/2

ACCESSION NR: AT4025313

s/0000/63/000/000/0233/0236

AUTHORS: Lavrent'yev, O. A.; Nemashkalo, B. A.; Ovcharenko, L. I.; Safronov, B. G.; Sidorkin, V. A.

TITLE: Measurement of potential well in a plasma by means of the time of flight of charged particles

SOURCE: Diagnostika plazmy* (Plasma diagnostics); sb. statey. Moscow, Gosatomizdat, 1963, 233-236

TOPIC TAGS: plasma research, ionized plasma, plasma source, plasma injection, plasma confinement

ABSTRACT: A method is proposed for measuring the potential of a plasma during the time of flight of a beam of charged particles through the plasma. In the case of a dense plasma, when the Debyescreening radius is small and the electric fields in the plasma are concentrated in a narrow boundary layer, methods using beams of

Cord 1/4

ACCESSION NR: AT4025313

charge particles entail experimental difficulties. The operation of the experimental setup is such that after the injection pulse is completed, the potential of the grid of the plasma gun becomes lower than the cathode potential, and the electrons are locked in a trap. The plasma is produced as a result of ionization of the residual gas by the electrons. The potential well is measured by passing a modulated beam of krypton ions through the plasma. The time dependence of the plasma potential is determined from oscillograms which slow the phase shift of the ions in the beam. Orig. art. has: 4 figures and 6 formulas.

ASSOCIATION: None

SUBMITTED: 190ct63

DATE ACQ: 16Apr64

ENCL: 02

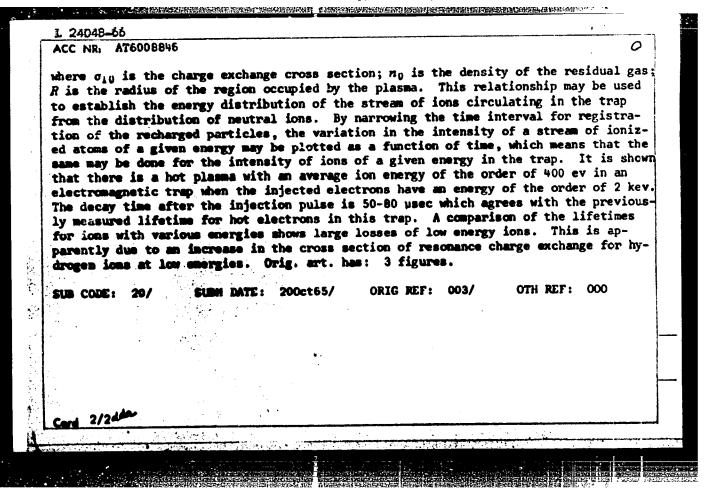
SUB CODE: ME >

NR REF SOV: 001

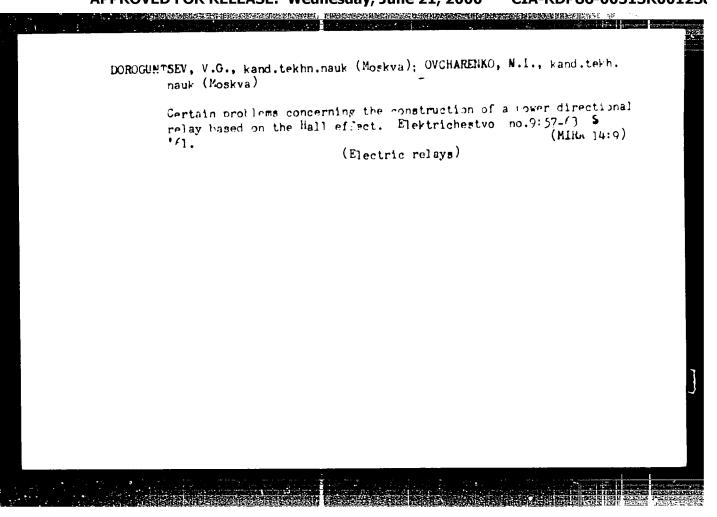
OTHER: 001

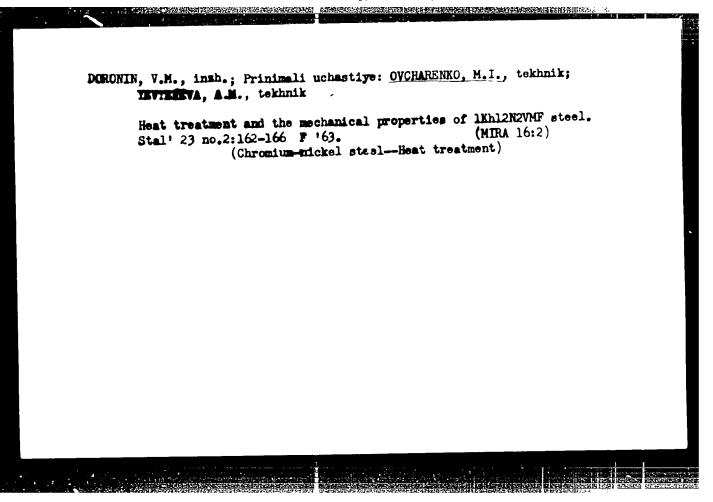
Card 2/4

。 "我们的现在分词,但是不会是对这种的人,我们就是不是一个人,我们就是这一个人,我们就是这一个人,我们们的人,我们们是不是一个人,我们们是不是一个人,我们们就 ACC NR: AP7008906 SOURCE CODE: UR/0185/66/011/009/098_...989 AUTHOR: Lavrentiyev, O. A.; Ovcharenko, L. I.; Safronov, B. H. Sydorkin, V. O. Ond: Thusics-angineering Institute, Ekrainian Academy of Sciences, Kharkov Ciry-o-te-anichnyy Instytut AN Urr-SR) Till : Slectron injection into an electromagnetic trap Second Coravins kvy fizychnyy zhurnal, v. 11, no. 9, 1966, 982-989 " ." west electron beam, electron capture . :::: The authors investigated the conditions of Low-dending can have comcall the transferences the transfer for postion and dimensions of the calloge are noteriousn's as to secure the sent effective injection of electrons. The life of the electrons in the transfer owned and compared for the case of mainetic and electromagnesses of the plasma electrons. The transneutral atom instrut. By the plantage or engy loss by the electron is determin o. The verification to make it is allitudion of the elections as a renest of colds som with neutral afors is reasured. It is shown that with a magnetic field strength exceeding a certain critical value the escape or c. trons from the trap is consistened by diffusion processes only. Orig. art. mast 13 figures, . formulas and i table. Eric: 38,417/ Card 1/1



Requirements of transp. +().	norphoduted automotive to 2 pt Filter.	andportable of the South	
1. Partiynoyo ha	oro (faleyekoro avtokhozya) (fransportation, .	rrtva. mitomotine)	

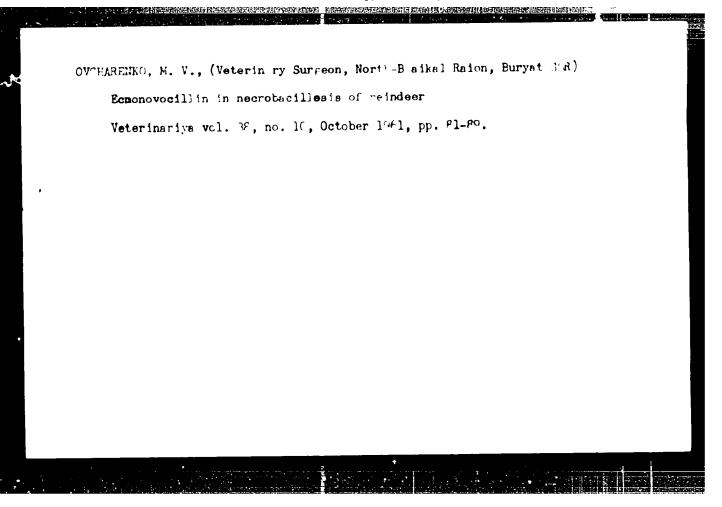


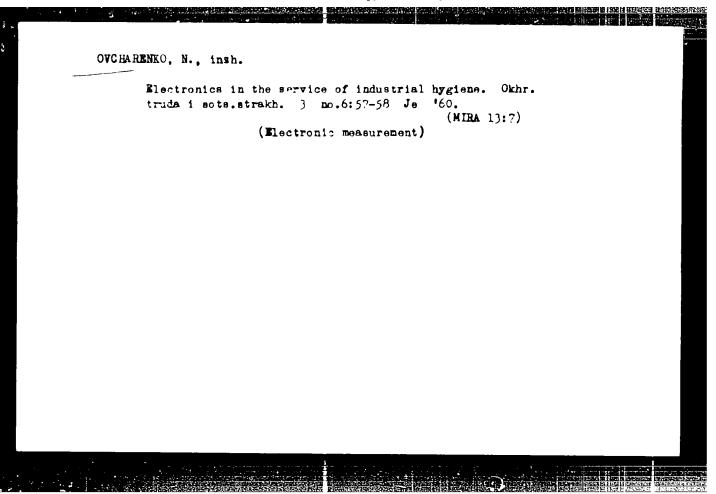


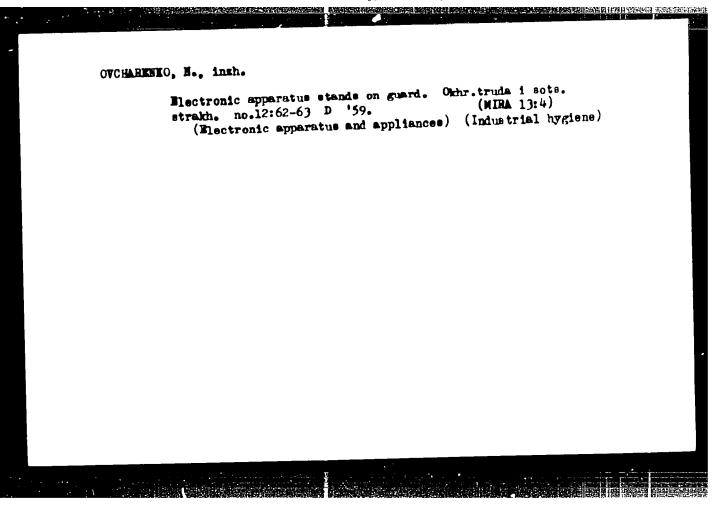
OVCHARRNEO, M.N., otv.sa vypusk; YARRNCHUK, A.V. [IAremchuk, A.V.], tekhn.red.

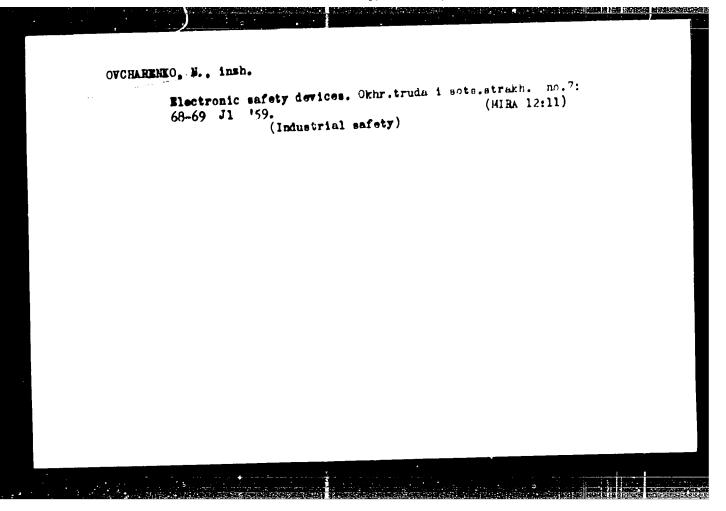
[Beconomy of Lvov Province; a statistical memusl] Harodne hospodarstvo L'vive'koi oblasti; statystychnyi sbirnyk. L'viv. Dershatatydav. 1958. 338 p. (MIRA 12:3)

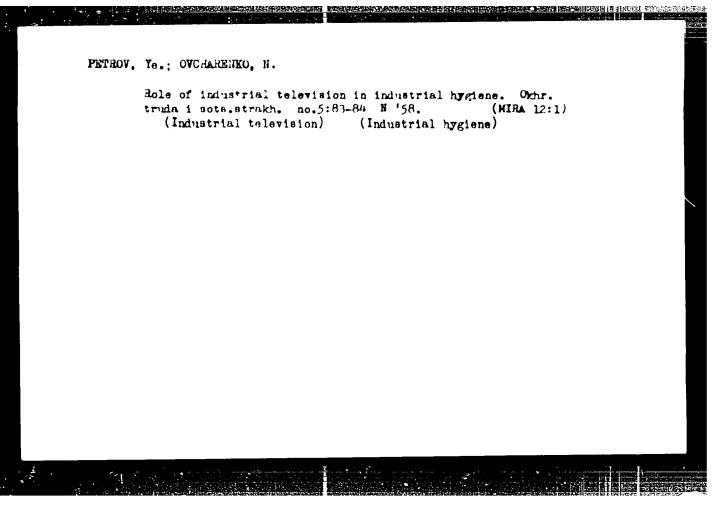
1. Lvov (Province) Statystychne upravlinnia. (Lvov Province--Economic conditions)

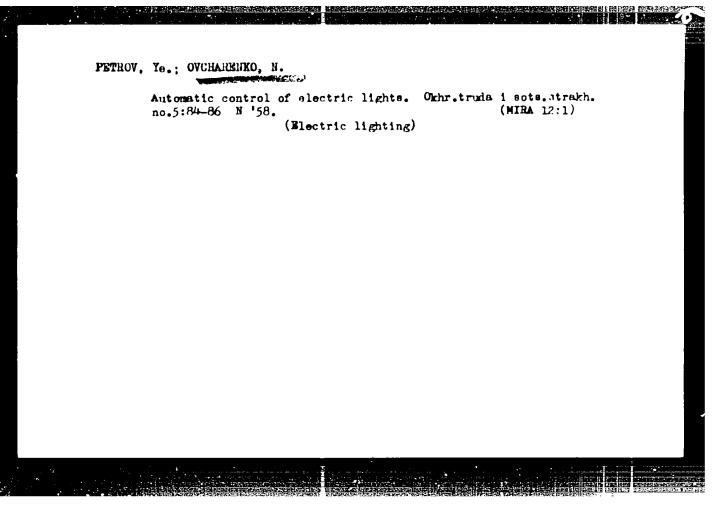


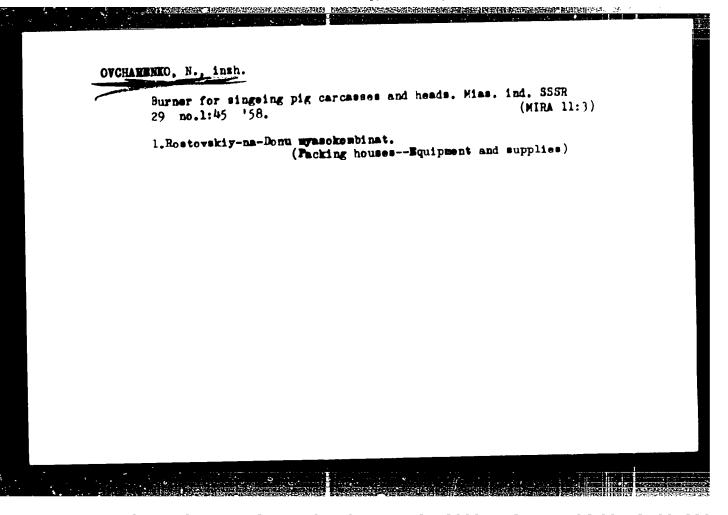


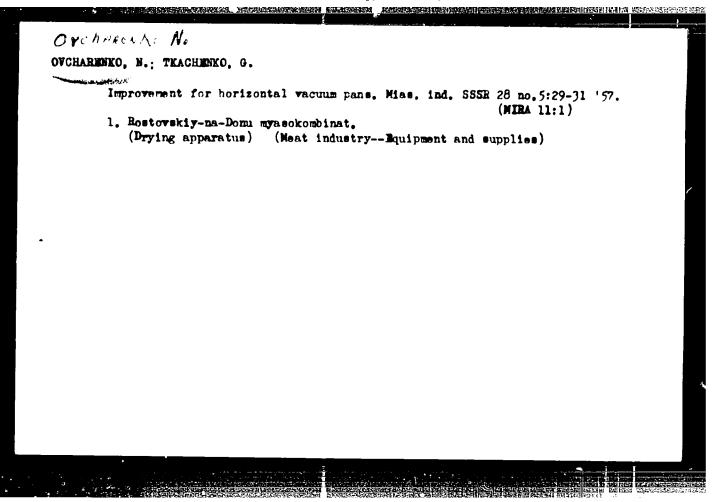












OVCHARENKO, N.I., kand. tekhn. nauk

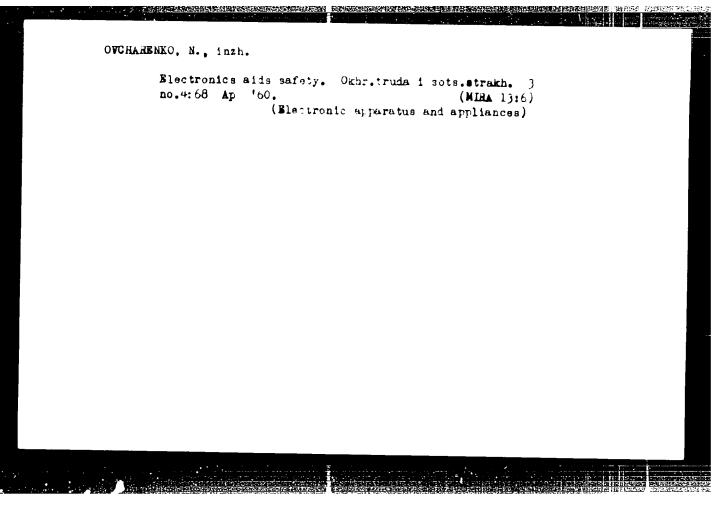
Special features of symmetric current components of double

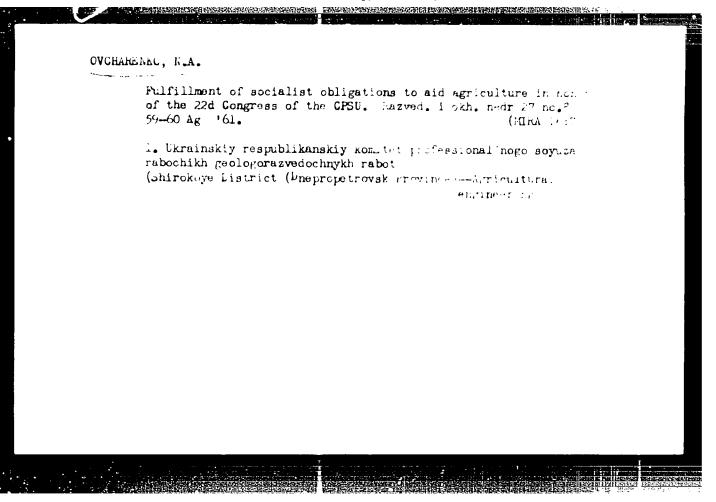
contacts to ground. Izv. vys. ucheb. sav.; energ. 2 no.2:52-62 F '59. (MIRA 12:7)

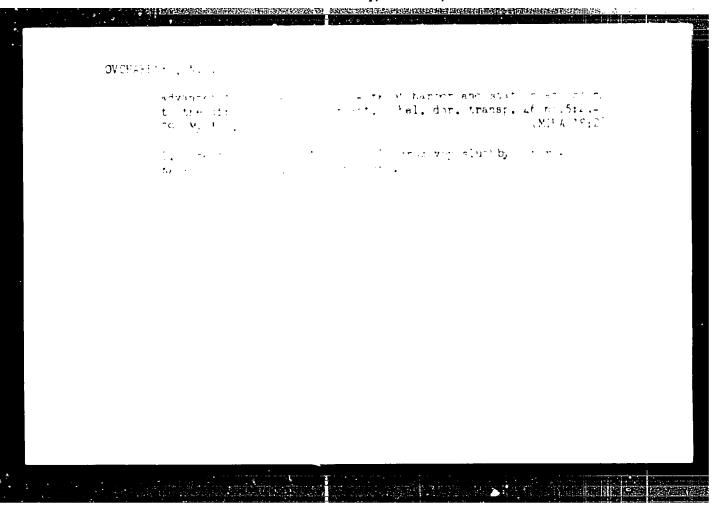
1. Moskovskiy ordena Lenina energeticheski institut.

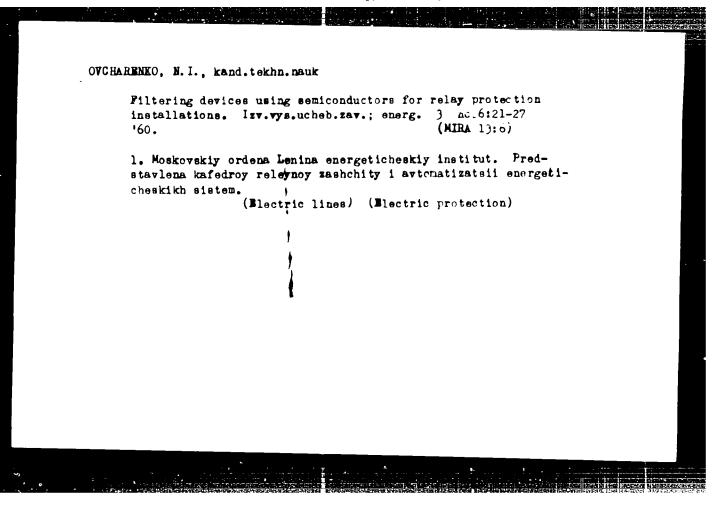
Predstavlena kafedroy releynoy zashchity i avtomatizatsii energosistem.

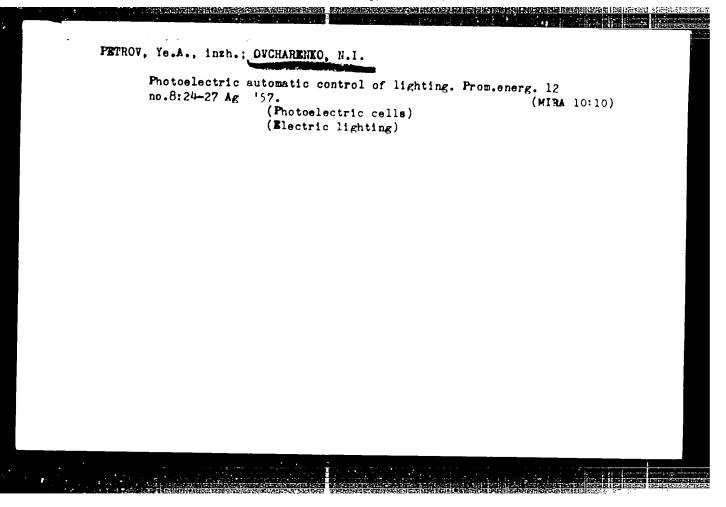
(Electric currents--Grounding)

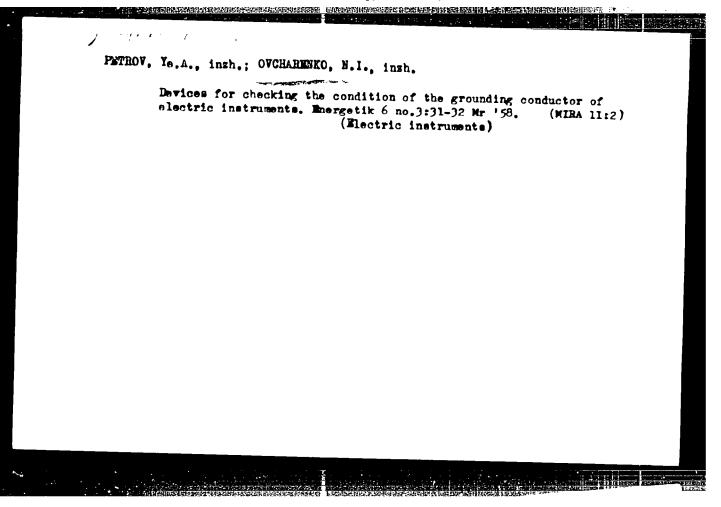








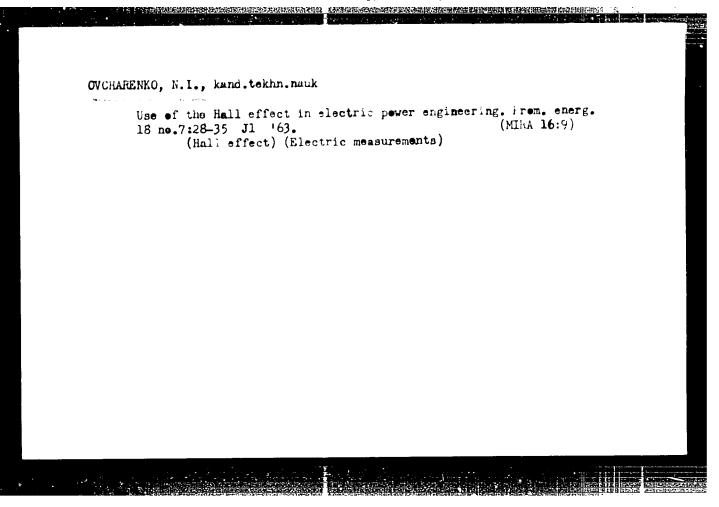




HUDKIN, V.V., inzh.; DOROGUNTSEV, V.G., kand.tekhn.nauk; OVCHARENKO, N.I., kand.tekhn.nauk

Direktional power relay based on galvanomagnetic effects. Isv. vys.ucheb.zav.; emerg. 5 no.11:24-29 N 62. (MIRA 15:12)

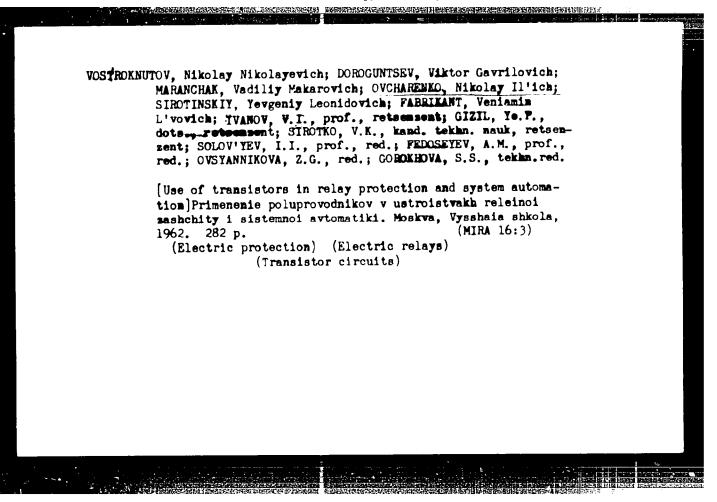
l. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena kafedroy releynoy zashchity i avtomatizatsii energozistem. (Electric relay)



```
OVCHARENKO, N.I.

D.c. voltage galvanomagnetic amplifier. Prib, i tekh. eksp. 7 no.;:107-109 My-Je '62. (MIRA lc:?)

1. Moskovskiy energeticheskiy iratitut. (Magnetic amplifiers)
```



5/143/62/000/011/001/002 D201/D308

AUTHORS:

Budkin, V.V., Engineer, Doroguntsev, V.G. and Ovcharento, N.I., Candidates of Technical Sciences

TITLE:

Power flow relays based on the Hall Effect

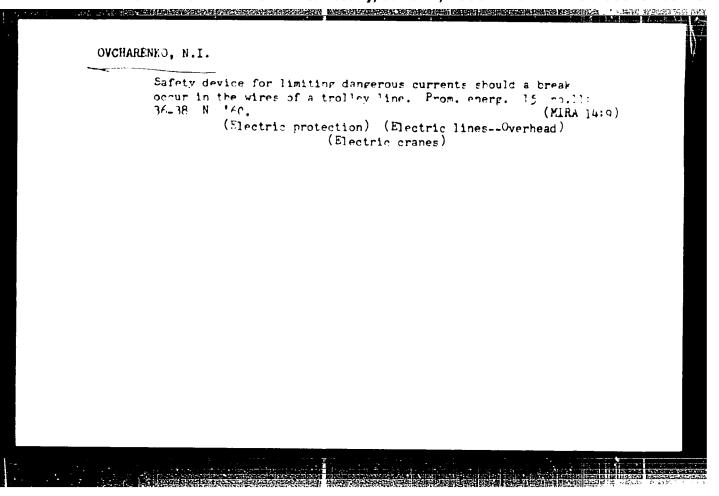
PERIODIC.L:

Izvestiya vysshikh uchebnykh zavedeniy, Emergetika,

no. 11, 1962, 24-29

The authors analyze the operation of a power protection relay having two Hall Effect sensing elements which constitute the load of apologized relay. Owing to two sensing elements there are no second harmonic components of the Hall Effect emf. Compared are no second harmonic components of the Hall Effect emf. with the existing type of Hall Effect protection relay the unit described has a greatly increased sensitivity. This is achieved by: a) restricting the periodicity of the change of magnetic induction in the current circuit by lowering the voltage to its minimum permissible value; b) by limiting the magnetic induction and power dissipated in the current circuit due to S.C. currents exceeding the nominal value; c) by momentary increase of input power of sensing

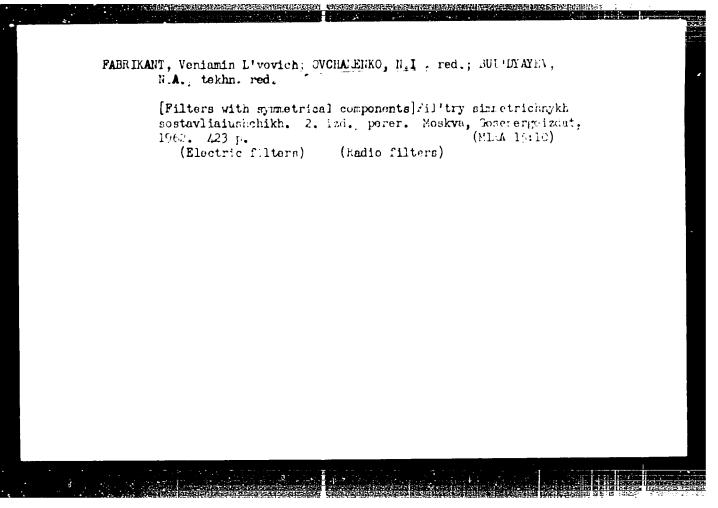
Card 1/2

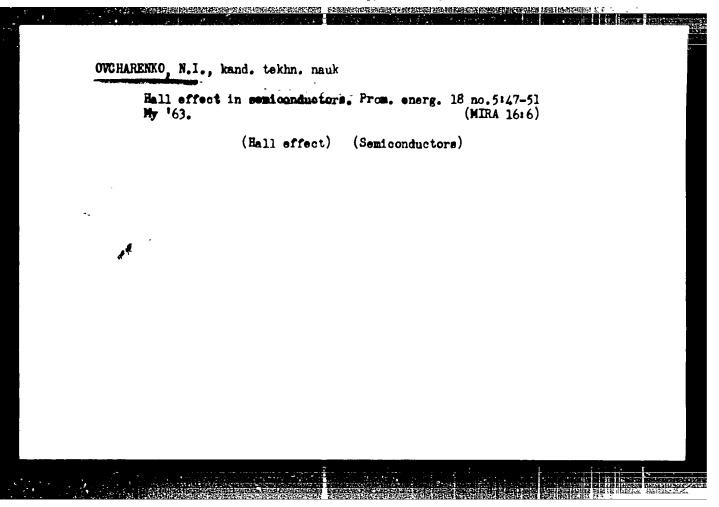


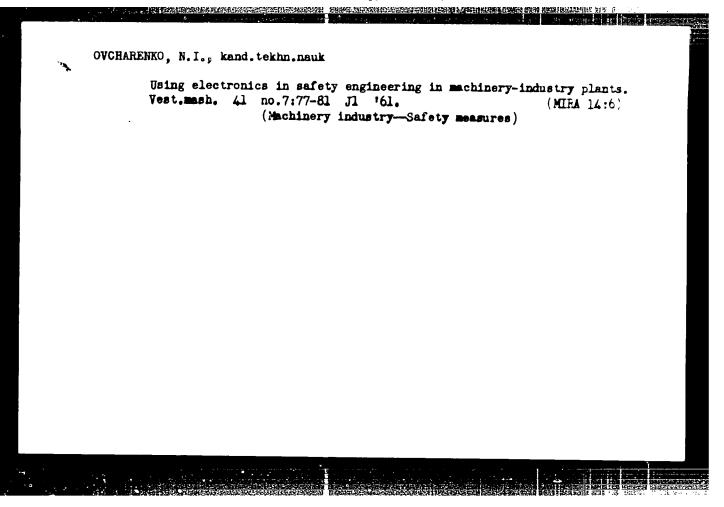
OVCHARENKO, Nikolay Il'ich; KH: CUSTALEVA, N.I., red.; GOROKHOVA, S.S.,

tekhn. red.

[Galvanomagnetic effects in semiconductors and their
technological uses] Gal'vanomagnituye iavleniia v poluprovodnikakh i ikh tekhnicheskoe ispol'sovanie. Moskva,
Gos. izd-vo "Vysshaia shkola," 1961. 99 p. (MIRA 15:4)
(Semiconductors) (Hall effect)



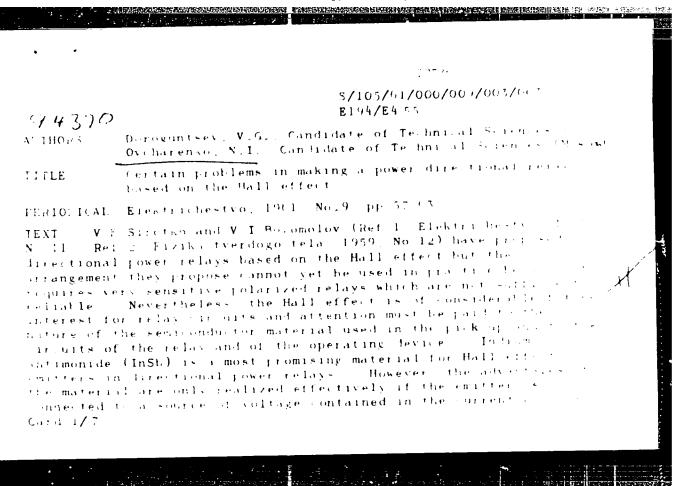




PEROV, Yevgeniy Andreyevich; OVCHARDNO, Nikolay Il'ich; MASATKIN, A.S., prof., retsenzent; BORISOV, Ye.V., Ingh., retsenzent; POPOV, G.A., ingh., red.; KUZ'MINA, Ye.M., red. izd-va; DOBRITSTNA. R.I., tekim. red.; SMIRNOVA. G.V., tekim. red.

[Electronic devices for the protection of workers in the machinery industry] Elektronnye ustroistva dlia okhrany truda v mashinostroenii. Moskva, Mashgiz, 1961. 119 p. (MINA 14:11)

(Industrial safety) (Electronic instruments)



5/103/61/000/00 //CC1/CC E194/E455

Certain problems in making

of the relation With this method of connection the output it we the emitter delivered to the load under the worst relax of the coninditions is made in the than if the emitter were the countries and the operations conditions to a sensetice tive timal power relative said that me of the class The gratuates for excepte the voltage than the mexical and has propertional to it) may be very nearly ver Assordingly the loss resistance should match the resistance exhibited by the Hall effect (mitter wher it is in a zero will the LL $_{\rm c}$ Further constitution is given to the output pash. Bill effect emitter to this story that if an aparticle is the emitter is supplied from a veltage source the carpet place is times greater than it it is supplied from a surrent wood The reason is that the clinic between the current electrics the prokoup resource relatively constant despite the above this is entered by Proceed that it is enne to include a Holl effect emitter of InSt is the most socially to tere tional power relation. Under tault conditions where to oltige falls, the empter is subject to overload every

27.77

5/105/61/000/009/003/001 E194/E4 55

Certain problems in making

urrent remains constant, because the emitter resistance is reduced and the input power is correspondingly increased However faults involving loss of voltage are usually of short duration and so such overloads are usually tolerable. However overloading by short circuit currents is usually intolerable and the rated current of the Hall effect emitter should be selected accordingly. The use of a Hall-effect emitter of InSb requires that the load resistance should be less than one ohm. an be used to increase the speed of protection only when the emitter is combined with inertialess transistor amplifiers input impedance of such amplifiers may be tens or hundreds of whim-In such cases, relay sensitivity is ensured not so much by the output power of the emitter as by the e m f developed, i.e. is the Germanium Hall effect voltage sensitivity of the emitter emitters have the greatest voltage sensitivity and moreover are relatively unaffected by temperature. A condingly the airrecommended for use in relays associated with transistor ! They were in fact used in a model of a directional power relay, which had as an operating device a zero indicator Two circuits of dire tional power based on translator triodes Card 3/7



27:70 \$/105/61/000/004/00*/00 E194/E455

Certain proflems in making

relays based on the Hall effect are possible differentiation circuit and the other a circuit in which the soltage and current applied to the relay are split into two omponents at right angles to one another. The first of this to mits is the simpler but does not neutralize the obtaining tonmponent of the Hall 6 m f . The more complicated arrows as a n Fig. 2t neutralizes the alternating component under all state state operating conditions, whether the resistance of the energy depends on the magnetic induction or not the emitters is its the the all independent of the magnetic independ temperations of our massle designed in which the correct is split without drawing resetive power from the current tearst The drawle of a fire tomal power relay of this sort . Committee emitters is shown in Fig. 5. Tests on a fill of a wer relax shows that with a min mum operating power ! exted current of EA. the power draws from the current of two ass transformers in territed conditions is not more than L in C. (C.V.) respectively. Denimi tests of the relay showed that testite in rossibility of obtaining high operating speeds, in practice the operating time is not less than half a vile of power trequency / and 4/7

Certain problems in making ...

\$/105/61/000/004/003/007 E194/E455

because it is adversely affected by the aperiodic component of the short-circuit currents. For a sine directional power relay, as used in zero-phase-sequence directional protection, the voltage-splitting circuit of Fig.8 may be used, giving much more favourable transient operation. By limiting the range of change of magnetic induction in the relay circuit the minimum relay operating power may be reduced to 0.1 VA. As high-speed d.c. amplifiers are so insensitive, one way of increasing the sensitivity whilst simultaneously reducing the power drawn from the instrument transformers is to convert the constant component of the Hall e.m.f. into alternating current with subsequent amplification and phase-sensitive rectification. There are 9 figures and 9 Soviet

SUBMITTED:

February 20, 1961

Card 5/7

8/143/60/000/006/006/008 XX A189/A026

AUTHOR: Ovcharenko, N.I., Candidate of Technical Sciences

TITLE: Transistor Filter Units for Protective Relaying Devices

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Energetika, 1960, No. 6,

pp. 21 - 27

TEXT: The paper analyzes the operation and gives the design of selective and directional power filter units for protective relaying of two-phase ground faults occurring at various spots in the system with an isolated, or compensated neutral. The filter units disconnect one faulty line and preserve the operation of the other one. They were built and tested in the laboratory of protective relaying and automation of power systems of the Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute). The selective filter unit consists of two three-phase voltage filters - forward and reverse sequence - a voltage amplitude-equalizing circuit, an adding circuit, and a three-phase phase-sensitive circuit. The selective filter unit operates at ground faults with A and C phases only. It can directly be connected into contactless transistor protective circuits, e.g.: a high-frequency phase-difference protective circuit. Also, a sensitive zero indicator can be connected to the output of the phase-sensitive

Card 1/2

9/143/60/000/006, nob cob. xx A189/A026

Transistor Filter Units for Protective Relaying Devices

circuit. The directional power filter unit consists of a single-phase reverse-sequence voltage filter, a three-phase forward-sequence filter, a voltage amplitude-equalizing circuit, an adder circuit, a frequency filter, a phase-sensitive circuit and a transformer. It is advisable to use a transistor transducer of the Hall emf (Ref. 9) in place of the phase-sensitive circuit with electric addition. By using the transducer as a harmonic analyzer (Ref. 10), the frequency filter can also be omitted. There are 4 figures and 10 Soviet references.

ASSOCIATION. Moskovskiy ordena Lenina energeticheskiy institut (Moscow "Order £ "Lenin" Power Engineering Institute)

PRESENTED: Department of Protective Relaying and Automation of Power Systems

SUBMITTED: December 25, 1959

Card 2/2

5/120/62/000/003/025/048 E192/E382

24.7600

Sycharenko, N.I.

AUTHOR: A galvanomagnetic amplifier for direct voltages TITLE:

Pribory i tekhnika eksperimenta, no. 3, 1962, PURICAL: 107 - 109

The amplifier is based on the use of the resistance changes in a semiconductor in a magnetic field. If the semiconductor is in the form of a thin germanium plate and the magnetic field does not exceed 6 x 10 0e, the change in the resistance can be described by the following formula:

$$(Q - P_o)/P = 0.2 \text{ HU.}10^{-4}$$
 (2)

H is the magnetic field, where

U is the voltage of the sample,

 ρ_{o} is the resistivity of the sample in the absence of a

magnetic field and is the resistivity in the presence of a magnetic field.

Card 1/3

\$/120/62/000/003/025/048 E192/E382

A Jalvanomaunetic

Moskovskiy energeticheskiy institut

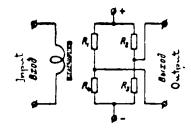
(Moscow Power-engineering Institute)

SUBMITTED:

ASSOCIATION:

September 15, 1961

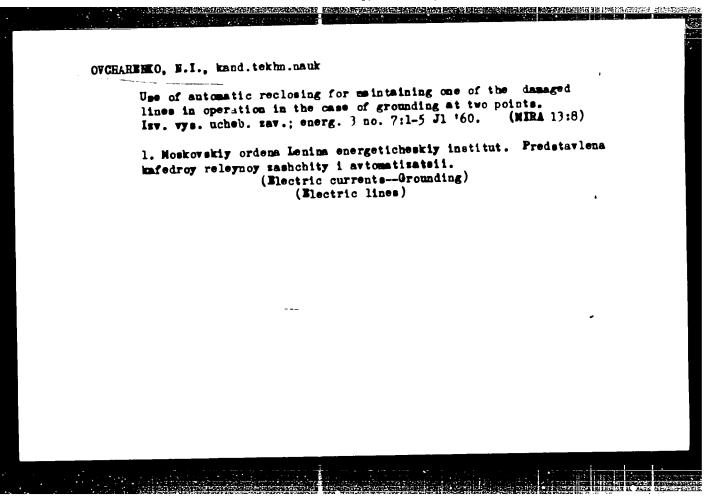
113. 2:

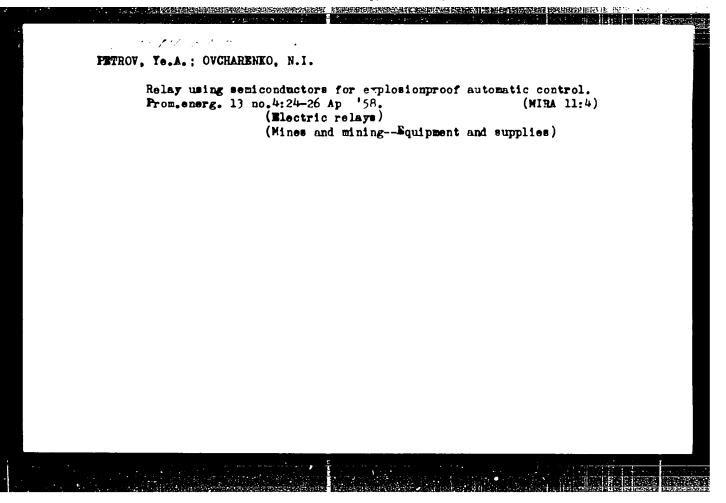


Card 3/3

```
DORDGUNTSEV, V.G., kand.tekhn.nauk; WCHARENNO, N.I., kand.tekhn.nauk

Power directivity relay based on the Hall effect. Elek. sta. 32
no.12:51-53 b '61. (MiRa 15:1)
(Electric relays) (Electric power distribution) (Electric protection)
```





OVCHARENKO, N.I. Can: rech Sci -- (diss) "Quick-acting matery devices in circuits with short grounded currents." Res, 177.

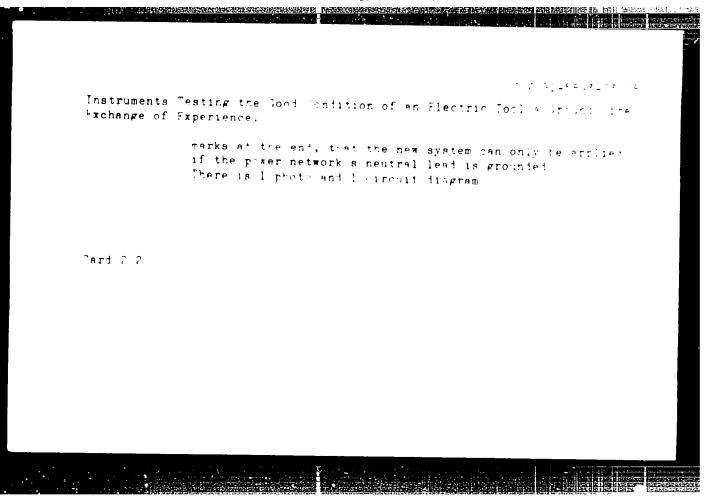
12 pp 20 co. (direct and mer zhour) n LoSa. Ros Green of Lenn.

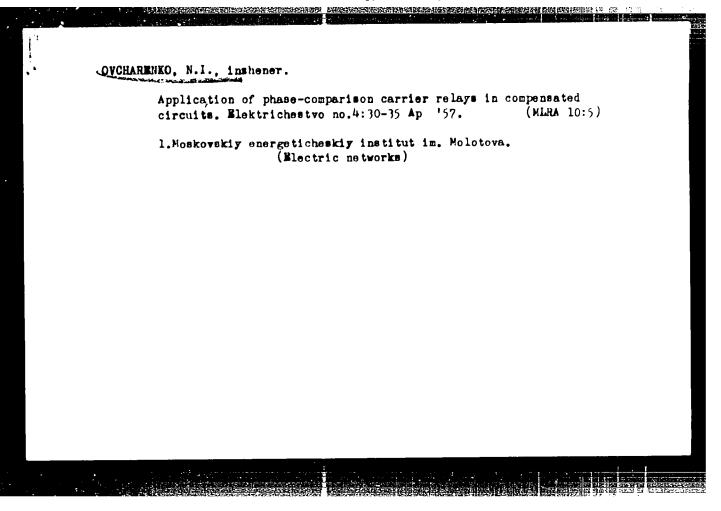
Power zhanteering list more. Mol tov). Par sepres.

(KL, 23-57, 113)

-69-

ATTHEFT: Fetrov. Ye.A., voharenko, N.I., Engineers of Policy and a TITLE: Instruments Testing the Good Condition of an electric Col. a Fround fire Fritory flys proverki isprayn its imperigration (e. go provoda elektrolostrumenta exchange of experience elek opytom PERIODICALE *nermetik, 1968, Wr *, np *1-*; " "posh APSTRACT: Time it is desperous to test the condition of a court of electric originate, the bein of a control lamb or a volumer. the lower Engineering Division of VLAM the Vsesovalray institut aviam torostroyeniya - 411-"nion Institute of Aviat. Votor Construction developed another testing unit, whose technical structure as well as operation method is given to the article. The lambs used with the new tester are of the 3M-37 type of T and C $_{1}$ T to . Both tools with a combined plus-connector and ground-contact, and those not review that combination, can be tested with the new unit The altern pu Card 1/7

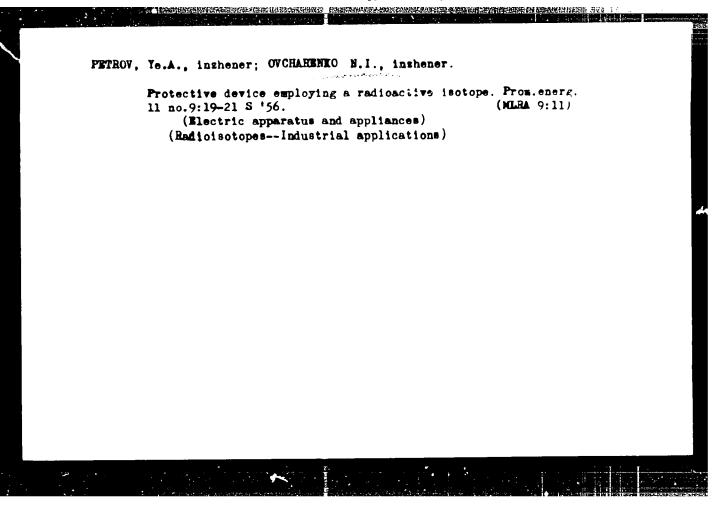


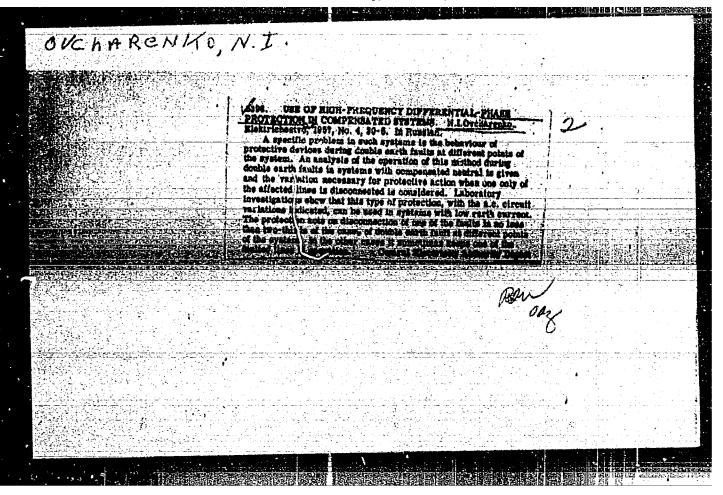


OVCHARBNEO. N.I., kand.tekhn.nauk

Behavior of directional high-frequency filter protection in the case of double contact to ground. Isv.vys.ucheb.sav.; energ. no.9:18-23 S *58. (NIRA 11:11)

1. Moskovskiy ordena Lenina energeticheskiy institut.
(Electric networks)





PETMOV, Ye.A., inchemer; OVCHARENTO, N.I., inchemer.

Electronic protective arrangement. Prom.emerg.ll nc.4:5-8 Ap *56.
(MIMA 9:7)
(Machinery.-Safety appliances) (Electronic apparatus and appliances)

SOV/147 58-1-1/13

AUTHOR:

Ovcharenk, ' ; , Candidate of Technical Sciences

TITLE:

Behavior of a directional brequency rifter brotening with leable ontact to Ground (Povedeniye firtrevoy napravienny vysokochastotnoy zashchity pri woynyku

zamykan iyaki na zemlyu)

PERIOLICAL:

Izvestiya vyssniku uchebnykh zavedeniy - inerfetika,

1358, or ., p 13-23 (USSR)

ABSTHACT:

The pare: gives the results of an analysis of the behavior i a parallel filter fuse with high irrequency blocking and able contact to ground in the circuits with an instructed zero point. The author examines circuit a terations which will ensure that the protect ion cuts fi only one point of contact to ground of the two phases in various parts of the circuit. Analysis shows that a directional filter , retection behaves uncertainty with double contact to ground, e.g. a) ... usually treaks both damage lines, as well as the sna, contacts of all orelays. b) In radial circults ... often thaks one line only, if the torque reading r

Card 1/3

CIA-RDP86-00513R001238 APPROVED FOR RELEASE: Wednesday, June 21, 2000

SoV/142-58-.--£ 18

behavior of a lirectional rrequency rilter frotection with outlie Contact to bround

SUBMITTEL: May 7, 128-4

Card 3/3

£4(3) SOV/143-59-8-7 /19 Ovcharenko, N.I., Candidate of Technica: Sciences AUTHOR: TITLE: Some Peculiarities & Symmetric Components of Destruction Ground Short Circuits (O nekotorykh oscienicstyakh simmetrichnykh sostavlyayushchikh tokov dvoynykh zamykani; na zemlyu) Izvestiya vysskikh uchebnykh zavedeniy - Energetika. PERIODICAL: 1959, Nr C, pp 52-62 (USSR) Methods for calculating double ground short circuits ABSTRACT: in compensated networks are adequately covered in literature. Therefore, the author considers some peculiarities of damaged lines with ground short circuits of two phases at different points of networks with various configurations and derives formulae for symmetric current components in such lines. The formulae are to be used for the analysis of the work of protective relays in case of double ground short circuits. The formulae were presented in a simplified form, thus they are more suitable for such an Card 1/2 analysis. A ring network with two feed sources is

OVCHARENKO, N.L.

Durability of a blast furnace hearth and hearth bottom.

Metallurg 7 no.10:24-25 0 '62. (MIRA 15:9)

1. Dnepropetrovskiy metallurgicheskiy institut.

(Blast furnaces--Design and construction)

OVCHARENKO, N.L., inzh.

Prevention of heat excesses and gas release in blast-furnace casting yards. Bezop.truda v prom. 4 no.9:15-16 S '60.

(NIRA 1):9)

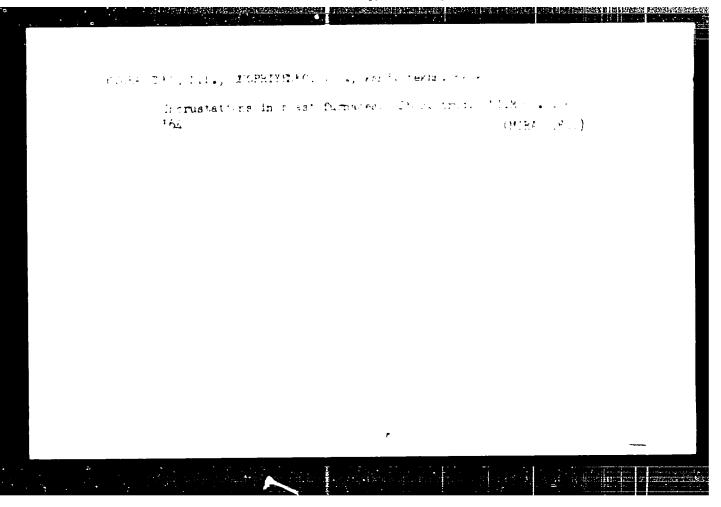
1. Dnepropetrovskiy metallur, icheskiy institut.

(Blast furnaces--Safety measures)

OVCHARENKO, E.L., insh.

Preventing gas explosions during the blanking of blast furnaces. Besop.truda v prom. 4 no.7:24-25 Jl '60. (MIRA 13:8)

1. Dnepropetrovskiy metallurgicheskiy institut. (Blast furnaces—Safety measures)

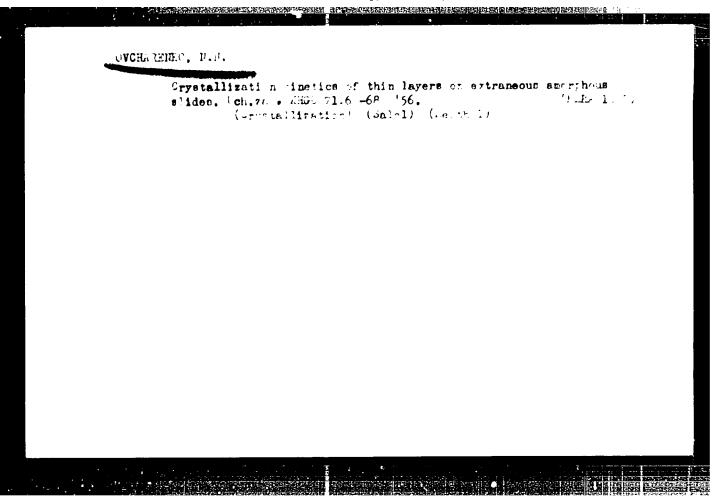


GEGUZIN, Ya.Ye.; OVCHARENKO, N.M.

Investigating certain physical processes occurring on the surface of crystals at high temperatures. Part 7: Role of viscous flow in smoothing out roughnesses on the surface of a solid. Fiz. met. i metalloved. 11 no. 5:807-809 My *61. (MIRA 14:5)

1. Institut khimii pri Khar'kovskom gosudarstvennom universitete.
(Surfaces (Technology)) (Viscosity)

IZMAYLOV, N.A., prof., zasluzhennyy deystel' nauki, otv.red.; KRAVCHENKO, A.N., red.; OYCHARENKO, H.N., kand.khim.nauk, red.; DJBINSKIY, G.P., dotsent, red.; KOVALEV, P.V., dotsent, red.; TRET'YAKOVA, A.N., red.: POGOZHEV, P.P., tekhn.red. [In the open spaces of the wonderful motherland; collection from the Departments of Physical Education and Sports, and General Physical Geography of Kharkov University and the Kharkov Mountaineering Section] Na prostorakh rodiny chudesnoi; sbornik kafedry fizicheskogo vospitaniis i sporta i obshchej fizicheskoj geografij Khar'kovskogo ordena Trudovogo Krasnogo Znameni gosudarstvennogo universiteta imeni A.M.Gor'kogo, khar'kovakoi gorodakoi sektsii al'pinizma. Khar'kov, Izd-vo Khar'kovako-(MIRA 13:12) go gos.univ., 1959. 397 p. (Mountaineering) (Tourism) (Physical geography)



GEGUZIN, Ya.Ye. [Hehuzin, IA.IB.]; OVCHARENKO, N.H.

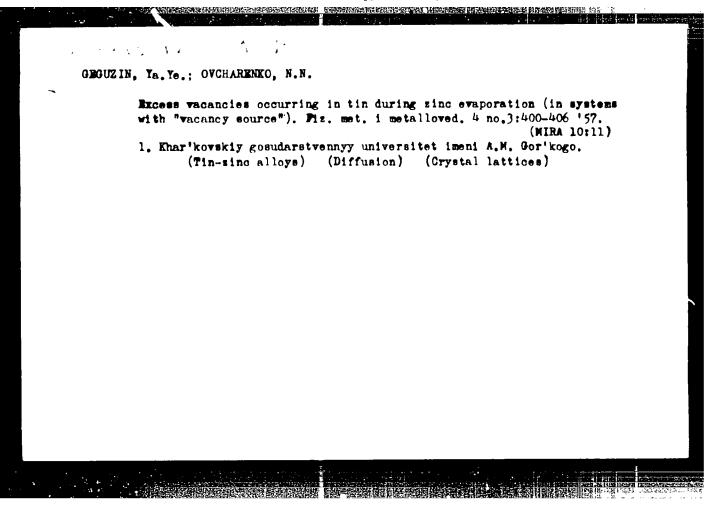
Effect of "immrities" on production of diffuse porosity. Undfiz.zmr. 3 no.5:696-698 S-0 '58. (MIRA 12:?)

1. Ehar'kovskiy gosudarstvennyy universitet i nauchno-issledo 'sl'-skiy institut Ehar'kovskogo gosudarstvennogo universiteta. (Ionic crystals)

GEGUZIN, Ya.Ye.; OVCHARENKO, N.N.

Microscopic pyenometry of solids with microcavities. Porosh.met.
2 no.5:15-19 3-0 '62. (MIRA 15:11.

1. Khar'kovskiy ordena Trudovogo Krasnogo Znameni gosudarstvennyy universitet im. A.M.Gor'kogo.
(Metallography) (Metals—Density)



OYCHARENKO N. N.

USSR/Engineering -Matel Serfaces

Gard 1/1 Pub. 22 - 13/40

Authors : Greein, Ya. E., and Ovcharenko, N. N.

Title ! Metal surfaces at high temperatures

Periodical : Dok. AN SSSR 99/3, 389-390, Nov 21, 1954

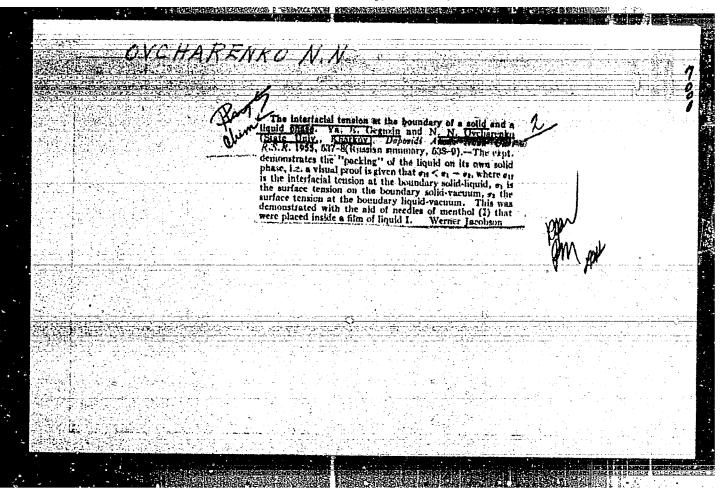
Abstract: Experiments intended to determine the state of metal surfaces at high temperatures (800 - 950°C) are described. The experiments were conducted on copper samplings. The surface properties of the samples under the temp-

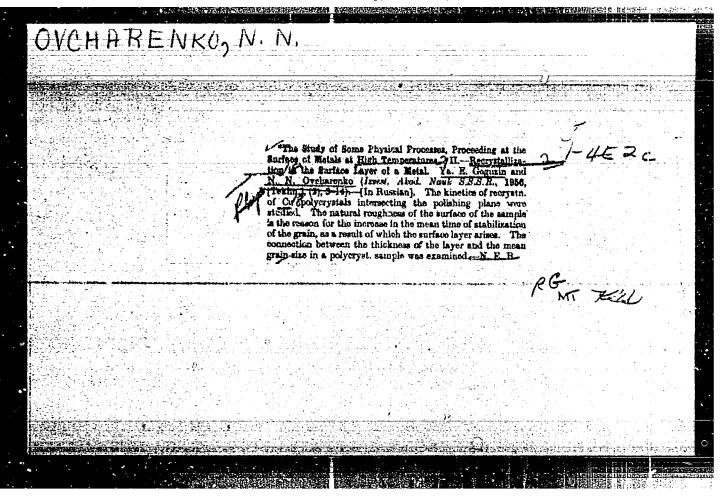
eratures mentioned are also described. Four Russian references (1936-1952).

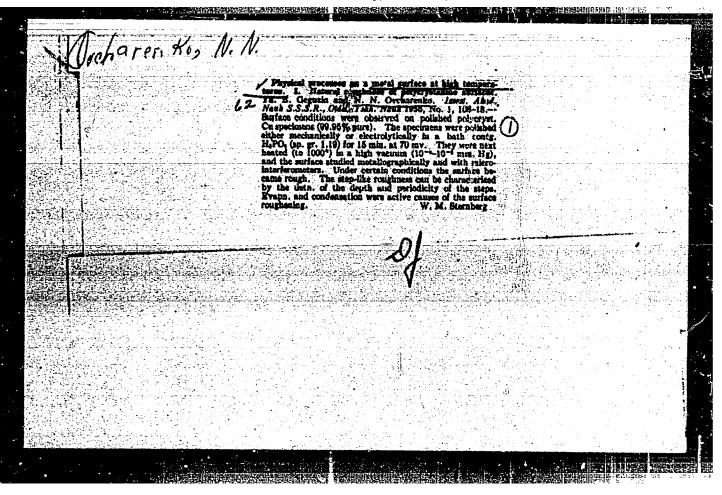
Illustrations.

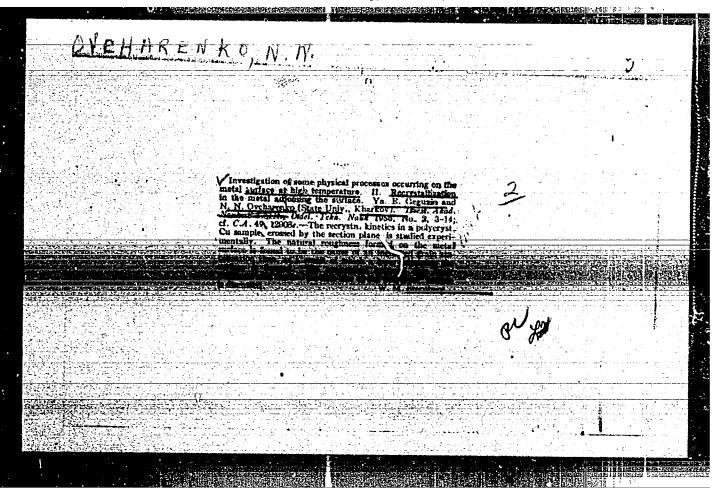
Institution: Kharkov State University A. M. Gorkiy

Presented by: Academician K. V. Belov, June 7, 1954









126-3-3/34 AUTHORS: Geguzin, Ya. Ye. and Ovcharenko, N. N.

Excess vacancies occurring in brass during evaporation of zinc (in a system with a "vacancy source"). (Ob TITLE:

izbytochnykh vakansiyakh, voznikayushchikh v latuni

pri isparenii tsinka (v sisteme s "istochnikom vakansiy").

PERIODICAL: "Fizika Metallov i Metallovedeniye" (Physics of metals and Metallurgy), 1957, Vol. IV, No. 3, pp. 400-406 (U.S.S.R.)

ABSTRACT: In this paper the authors simed to follow experimentally certain details of phenomena taking place in one of the types of specimens with a "vacancy source", namely, in specimens of an alloy from which the volatile component is removed. The selection was governed by the desire to follow simultaneously the kinetics of the cosculation of the excess vacancies and the kinetics of their removal from the specimen which can be materialised most easily on specimens of an alloy which does contain a volatile component. Brass containing 30% zinc was used for the investigations in the form of 20 mm long, 4 mm dia. cylindrical specimens after preliminary stabilisation by annealing at 820 C. The time and temperature dependence of the decrease in weight and volume of a-brass specimens was followed experimentally after removing the volatile component, i.e. the zinc. On the basis of the obtained

ENT(1)/EPA(8)-2/ENT(m)/ENP(w)/EPF(c)/EPF(n)-2/ENA(d)/T/ENP(t)/EBC(b)-2/ EMP(b)/EWA(c) Pr-4/Pt-7/P1-4/Pu-4 ACCESSION NR: AP5013718 JD/JG/GG UR/0070/65/010/003/0371/0379 548.4 AUTHOR: Geguzin, Ya. Ye.; Ovcharenko, N. N.; Vorob'yeva, I. V. TITLE; Investigation of phenomena on the surface of single crystals. On the mechan ism and kinetics associated with the healing of deep cracks on the surface of ionic single crystals. SOURCE: Kristallografiya, v. 10, no. 3, 1965, 371-379 TOPIC TAGS: crystallography, crystal imperfection, ionic crysts ABSTRACT: The healing mechanism of deep cracks in single Nacl crystals was observed experimentally. Cracks were introduced artificially in single crystals using a razor blade or a special heated knifa with an apex angle of 30° which was slowly pressed into the sample. Heat treatment was done in the region just below the melting point and was interrupted sporadically to observe changes occurring in the crack opening. A long-focus optical system was used so that the changes in the crack could be observed without destroying the sample. During isothermal annealing, the crack opening is displaced due to the influx of material. A large number of pro-Card 1/2

AP5013718 trusions form at the crack opening siving it an ulcerated front. In some places bridges form. The healing of the care is accomplished by at least two processes which take place simultaneously: 1) the closing of the crack accompanied by change in its apex angle; 2) the transport of material from the plane regions of the crack profile to its mouth. Approximate calculations are derived and presented for the displacement of the crack opening curing healing assuming that the mechanism is one of diffusion in a gaseous medium. Results of analogous calculations assuming volumetric diffusion and surface diffusion are presented without derivation. Theoretical considerations show that the application of stress during healing decreases the flare angle and should substantially accelerate the self-healing. This was confirmed in experiments with single NaCl crystals by applying 7 to 120 gram weights per mm2 perpendicular to the plane of the crack. Orig. art. has: 8 figures, 1 table, 7 formulas. ASSOCIATION: Khar'kovskiy gosudaretvennyy universitet (Kharkov State University) SUBMITTED: 7, 22Jun64 ENCL: 00 SUB CODE: NO REF SOVE 006 OTHER: 001 Card 2/2

GEGUZIN, Ye. Yo ; OVUHARENKO, N.N.

Motion of macrostopic gaseous inclusions in NaCl single crystals under the action of small electric fields. Dokl AN SSSR 163 no.31621-623 J1 '65.

(MIRA 18:7)

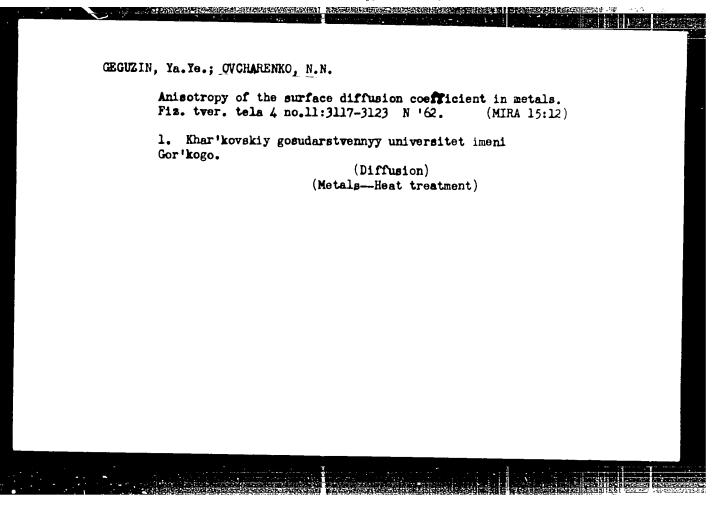
1. Khar'kovskiy garufarsivennyy universitet im. A.M.Gor'kogo. Submitted November 30, 1064.

GEGUZIN, Ya.Ye.; K(VALEV. I N.; C'UMATENKO, N.N.

Studying self-diffusion in the surface layer (pri. cy the "mass learner" and radioisotope methods. Fiz. tver. tela 5 nc.12:3536-199- D. Pri. (MIRA 1752)

1. Khar'k vakiy gosudarstvennyy universitet i UP rainakiy institut metailoz.

OVCHARENKO, N.N. Visual method of investirating the kinetics of oxidation and the decomposition of oxides on metal surfaces. Porosh. met. no.4: 37-41 Jl-Ag '61. (MIRA lo:5) 1. Nauchno-issledovatel'skiy institut khimii, Khar'kov. (Metallic films) (Activation analysis)



GEGUZIN, Ya.Ye.; OVCHARENKO, N.N.

Kinetics of thermal etching of twin boundaries in gold and copper. Fiz. tver. tela 4 no.11:3110-3116 N '62. (MIRA 15:12)

1. Khar'kovekiy gosudarstvennyy universitet imeni Gor'kogo.

(Surfaces)

(Metals—Heat treatment)