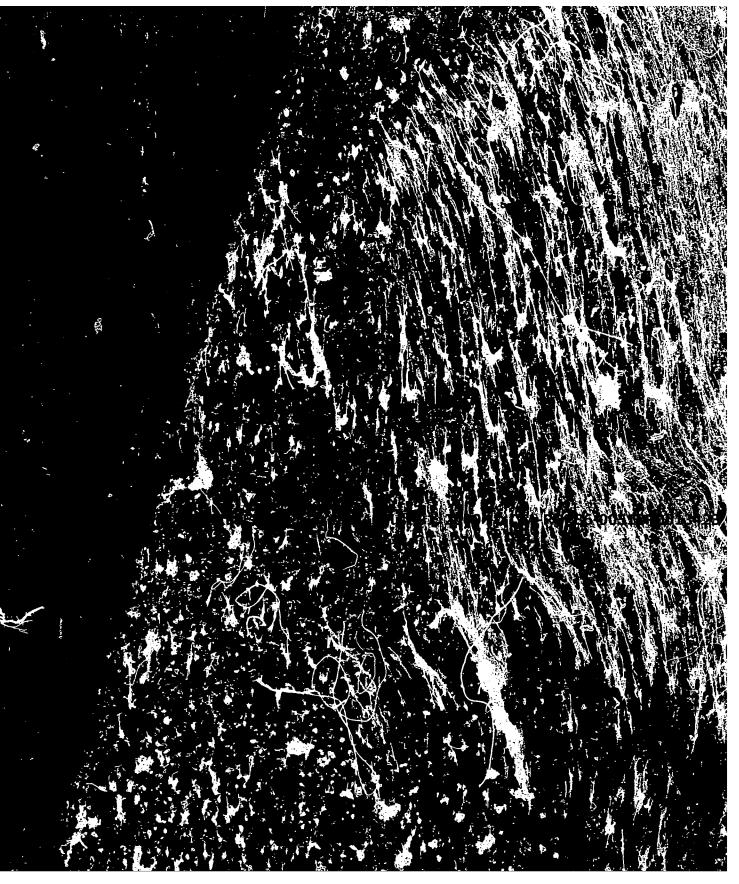
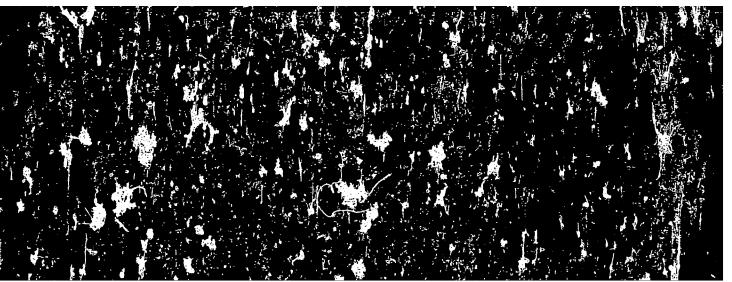


"APPROVED FOR RELEASE: Tuesday, August 01, 2000

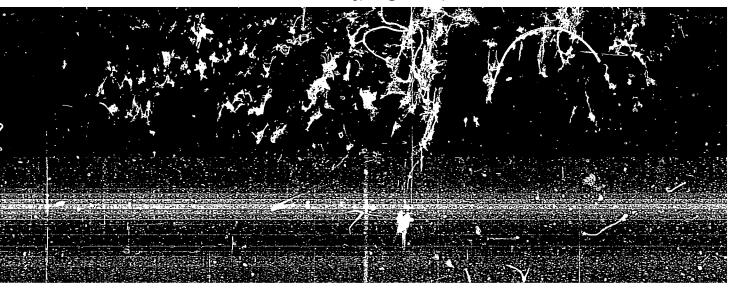
CIA-RDP86-00513R001342

Reel # 439 Popov, A.K.

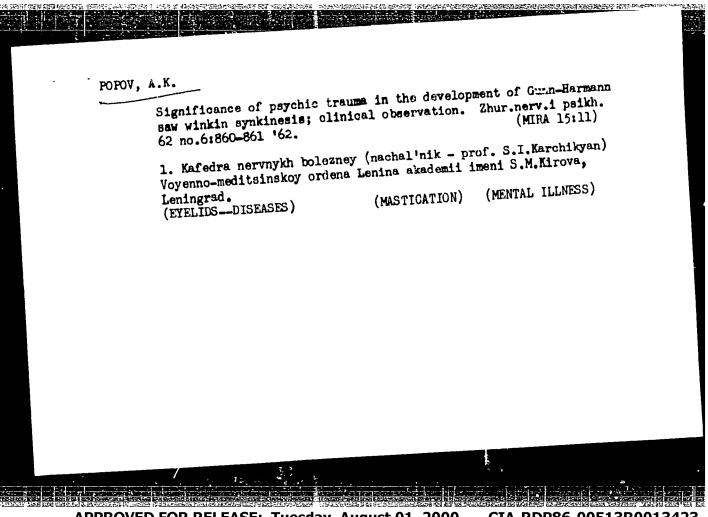








L h9h3h-65 EWA(k)/FBD/EWG(r)/EWT(1)/EEG(k)-2/F	(L) /m/REC(b)-2/EWP(k)/EWA(m)-2/
L 1191311-65 EWA(k)/FBD/EWG(r)/EWT(1)/EEG(k)-2/F EWA(h) Pf-11/P1-11/P1-11/Pn-11/Pn-11/Po-11/Peb SCI	B/IJF(c) WI 1018/005/1279/1282
L 19131-65 EMACH /P1-11/Pn-1/Pn-1/Po-11/Pab	UR/0056/65/046/00/
ACCESSION NR: AP5013886	54
AUTHOR: Popov, A. K.	医多形皮肤 医乳油 一角 植植物
AUTHOR:	A SACE
TITLE: The theory of gas lasers 15 SOURCE: Zhurnal eksperimental noy i teoretich	eskoy riziki, v. 48, no. 5, 1907
counce: Zhurnal eksperimental noy 1 teores	
化铁铁铁铁 2.1 马马上看见中 我的场景的,一句话,可以"说话",说话,"我就是我们的",这样就是这样的话,"	하고 보는 눈싸면 없다고 UN 그렇게 되는 사람들이 되는 것이다.
Tager theory, Butmus	the threshold and power
The state of the s	and an inder the Mississipping and another
ABSTRACT: A simple approach is proposed for generated by a gas laser in the near-threshold generated by A. Javan et al (J. Opt. So ditions imposed by A. Javan et al (j. Opt. So ditions imposed by A. Javan et al (j. Opt. So ditions imposed by A. Javan et al (j. Opt. So ditions imposed by A. Javan et al (j. Opt. So ditions imposed by A. Javan et al (j. Opt. So ditions)	c. Amer., 52, 96, 1962). The leading
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15 CAPACITIES TARE ON LIE PAGE	Tarention Character and Alesa
the resonant time, and	the motion of tame
tem. The proposed method takes into	orientation of one of a mechanism for
the resonator parameters, and on the redischarge plasma per unit time, and on the redischarge plasma per unit time, and on the redischarge plasma proposed method takes into account tem. The proposed method takes into account degeneracy of the energy levels, the random particles which interact with the radiation, particles which interact with the radiation, excitation of the lower level. Orig. art. h	as: I figure and 13 formulas.
particles which particles which are level. Orig. all	
Card 1/2	
Calo	
The second secon	



POPOV, A.K. Criterion for measuring activity during sleep. Znur. vys. nerv. deiat. 14 no. 4:732-736 Jl-Ag '64. (MIRA 17:12) 1. Chair of Nervous Diseases, Kirov Military Medical Academy, Leningrad.

ACC NR: AP6032530

SOURCE CODE: UR/0413/66/000/017/0131/0131

INVENTOR: Gusev, L. S.; Zimin, Yu. A.; Nistratov, A. F.; Pobedin, I. S.; Popov, A. K.; Rozanov, B. V.; Tokarskiy, A. P.; Kholin, Yu. T.; Tulyankin, F. V.; Shcheglov, V. F.; Yanovskiy, V. A.

ORG: none

TITLE: Drive of a high-speed counterblow hammer. Class 49, No. 185669 [announced by the All-Union Scientific Research Institute for the Planning and Design of Metallurgical Machinery (Vsesoyuznyy nauchno-issledovatel'skiv i proyektnokonstruktovskiy institut metallurgicheskogo mashinostroyeniya)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 131

TOPIC TAGS: metal forming machine tool, forging machinery, metal press

ABSTRACT: This Author Certificate introduces a drive of a high-speed counterblow hammer, which includes a high-pressure cylinder and a piston with a sliding sealing bushing. To improve the operational characteristics and efficiency of the hammer, the bushing, placed in a lower part of the cylinder, has a circular groove inside, into which oil is pumped under pressure equal to that of the gas in the cylinder, thus forming a layer which serves the dual purpose of sealing and lubrication. Orig. art. has: 1 figure.

SUB CODE: 11, 13/ SUBM DATE: 22May64/

Card

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342

ACC NR: AP6024871

AUTHOR: Popov, A. K.

ORG: Institute of Physics, Siberian Department, Academy of Sciences SSSR (Institut fiziki Sibirskogo otdeleniya Akademii nauk SSSR)

TITLE: Application of gas lasers for determining some atomic characteristics

SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 51, no. 1, 1966, 121-128

TOZIC TAGS: gas laser, laser cavity, metastable level, cavity tuning

ABSTRACT: An expression is obtained for the dependence of the radiation frequency

and power of a gas laser on resonator tuning and plasma column length under station—
y excitation conditions. The expression is deduced by using an equation for the
density matrix in a coordinate system which is not fixed with respect to the moving
particles. The result is valid for an arbitrary ratio of the spectral line contour
dispersion width to the Doppler width. Degeneracy of the operating levels, relaxation
transitions between them, and the self-consistent mechanism of filling up the lower
operating level from the metastable level are taken into account. The result is used
for estimating some atomic characteristics. Orig. art. has: 48 formulas. [CS]

SUB CODE: 20/ SUBM DATE: 27Aug65/ ORIG REF: 005/ OTH REF: 002/ ATD PRESS: $\hat{\mathcal{F}}$ 047

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86

CIA-RDP86-00513R0013423

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342

FBD/EWT(1)/EEC(k)=2/T/EWP(k)WG IJP(c) SOURCE CODE: UR/0139/66/000/002/0016/0024 L 34490-65 74 ACC NR: AP6013457

AUTHOR: Popov, A. K.

Institute of Physics, SO AN SSSR (Institut fiziki SO AN SSSR)

TITLE: Contribution to the semiclassical theory of quantum generators

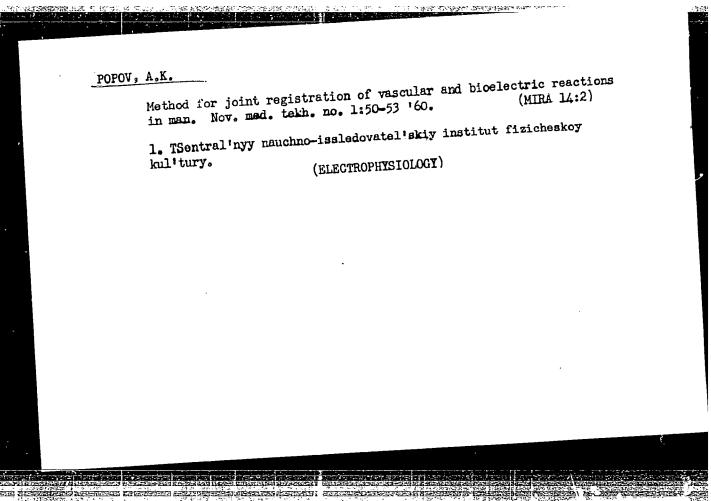
SOURCE: IVUZ. Fizika, no. 2, 1966, 16-24

TOPIC TAGS: quantum generator, laser theory, kinetic equation, laser emission, laser optic material, particle collision

ABSTRACT: The purpose of the investigation was to study the response of a quantum generator under certain characteristic conditions, and to illustrate the operating mode of lasers with the aid of analytic solutions obtained in limiting cases of weak and strong fields, with allowance made for cases when the absorption coefficient in the laser changes not only in magnitude but also in sign, and for cases when the laser field is not homogeneous. Earlier erroneous results due to failure to take these factors into account are pointed out. The kinetic equation for the density matrix is used to determine the response of the quantum system to a monochromatic standing wave of the electromagnetic field. A simultaneous solution of Maxwell's equations and the equations for the density matrix makes it possible to analyze the stationary mode of laser emission. The inhomogeneities of the radiating medium, modulated by the field, as well as the motion of the radiating particles, are taken into account. The stationary emission modes and generation thresholds are compared

1/2 Card

2/2



Correlation of unpleasant sensations with orienting and defensive reactions. Yop. psikhol. 6 no.1:121-127 Ja-Y 160. (MIRA 13:6) 1. Kafedra psikhologii Moskovskogo gosudarstvennogo universiteta. (Senses and sensation) (Orientation)

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POPOV, A.K.

"Actographic" studies on sleep in man. Zhur. vys. nerv. deiat.
(MLRA 7:8)
4 no.1:133-136 Ja-F *54.

1. Klinika nervnykh bolesney Voyenno-meditsinskoy akademii im.
S.M.Kirova.

"motor funot., registration)
(MOVERENT.

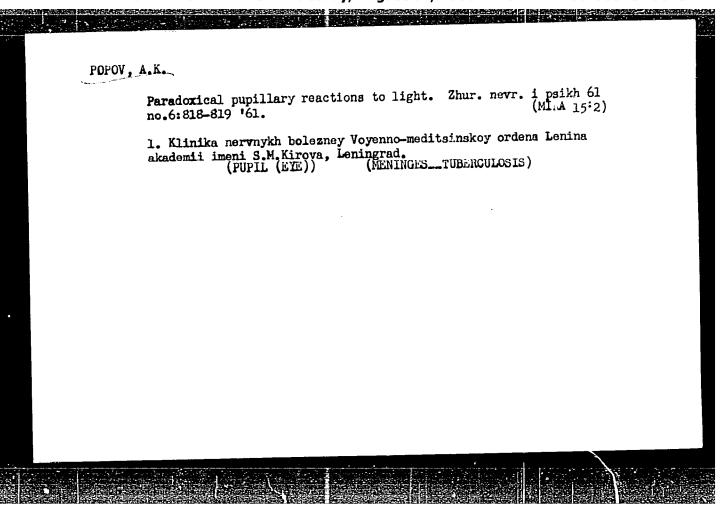
"in sleep, registration)
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Diagnostic significance of the cinematographic method of studying purillary reaction to light in some diseases of the central nervous system. Trudy Gos. nauch.-issl. psikhonevr. inst. no.201395-403 (MIRA 14:1)

159.

1. Voyenno-meditsinska: Akademiya imeni S.M. Kirova, Leningrad. (REFIREES) (PUPIL (EYE))

(PHOTOGRAPHY, MEDICAL) (NERVOUS SYSTEM.-DISEASES)



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POPOV, Al.; DIMITROVA, Ia.

Hypopituitarism after an abnormal labor (Simmonda-Sheehan disease) combined with carcinoma of the uterus. Suvrem. med., Sofia 9 no.2: 98-102 Feb 58.

1. Iz Kliniketa po Vutreshni bolesti s obmiana na veshchestvata i endokrinologiia pri ISUL (Direktor: prof. Iv. Penchev).

(SIMMOND'S DISEASE, compl.

cancer of uterus, purperal (Bul))

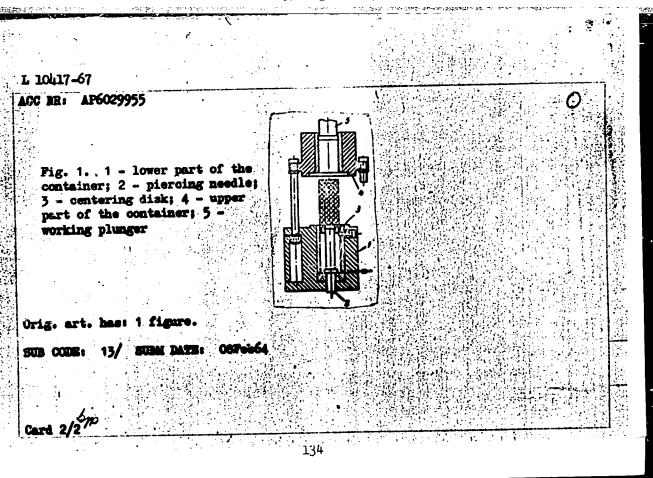
(UMERIN NEOPIASES, compl.

Simmond's dis., puerperal (Bul))

(FUERPERIUM, compl.

Simmond's dis. with cancer of uterus (Bul))
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L 10417-57 EWT(d)/EWT(w)/EWP(t)/ETI/EWP(k)/EWP(h)/EWP(l) IJP(c) ACC NR: AP6029955 (A,N) JD/HW SUURCE CODE: UR/0413/66/_00/015/0134/0135 INVENTORS: Wistratov, A. F.; Popov, A. K.; Gusev, L. S.; Rozanov, B. V.; Pobedin,
I. S. ORG: none
TITLE: An instrument for deep piercing of ingots. Class 49, No. 184592 /announced by All-Union Scientific Research and Design-Construction Institute of Retallurgical Machine Construction (Vsesoyuznyy nauchno-issledovatel'skiy 1 proyektno-konstruktorskiy institut metallurgicheskogo mashinostroyeniya)/
SOURCE: Isobret prom obraz tov sn, no. 15, 1966, 134-135
TOPIC TAGS: metallurgic machinery, metalworking machinery ABSTRACT: This Author Certificate presents an instrument for deep piercing of ingots. The instrument includes a container, an immobile piercing needle, and
movable centering disk (see Fig. 1). To increase the accuracy of piercing, the container is made up of two parts, the immovable one (carrying the centering disk and the piercing needle) and the movable one (carrying the working plunger).
Card 1/2 UDC: 621.735.6.06



POPOV, A1.
POPOV, A1.
Association of diabetes mellitus with hyperthyroid syndrome.
Suvrem. med., Sofia 5 no.1:69-76 1954.

l. Iz Vtora vutreshna klinika s endokrinologiia i obmiana na veshchestvata pri ISUL (direktor: prof. Iv.Penchev).

(DIABETES MELLITUS, complications,

*hyperthyroidism)
(HYPERTHYROIDISM, complications,

*diabets mellitus)

FOPOV, Al. K. SUMMAN (in caph); Given Names

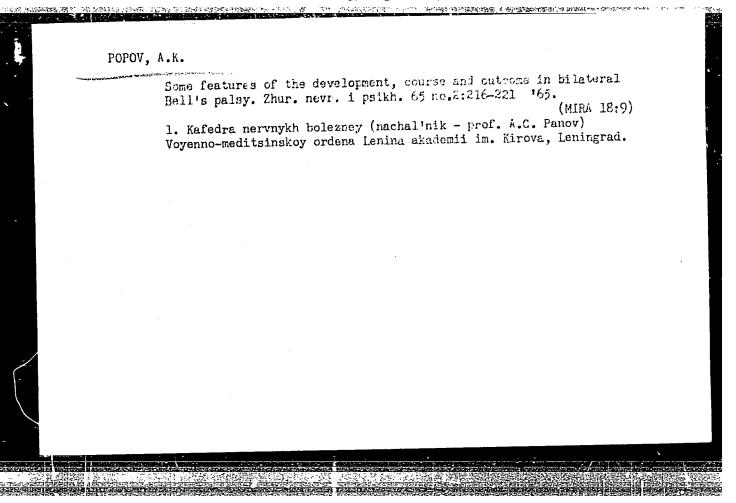
Country: Bulgaria

Academic Degrees: not indicated

Affiliation: not indicated

Source: Sofia, Priroda, No 1, Jan/Fco 61, pp 78-80

Data: "A Member of the Odonata Family Previously Unknown in Bulgaria."



POPOV, A.K. Theory of gas lasers. Zhur. eksp. i teor. fiz. 48 no.5:1279-1282 (MIRA 18:7)

1. Institut fiziki Sibirskogo otdeleniya AN SSSR.

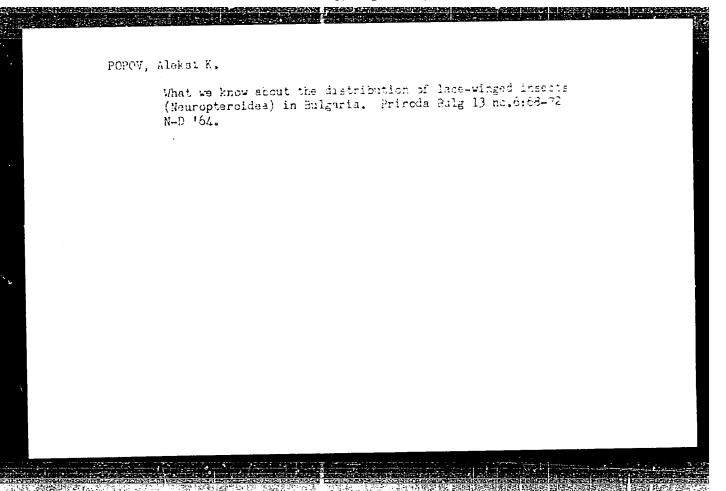
му 165.

POPOV, A.K.

Structure of the pupillary reflex in early neurosyphilis. Vop. psikh. inevr. no.3:130-135 '58. (MIRA 12:3)

1. Iz kafedry nervnykh bolezney Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.

(NERVOUS SYSTEM--SYPHILIS) (PUPIL(EYE))



POPOV, A.K.

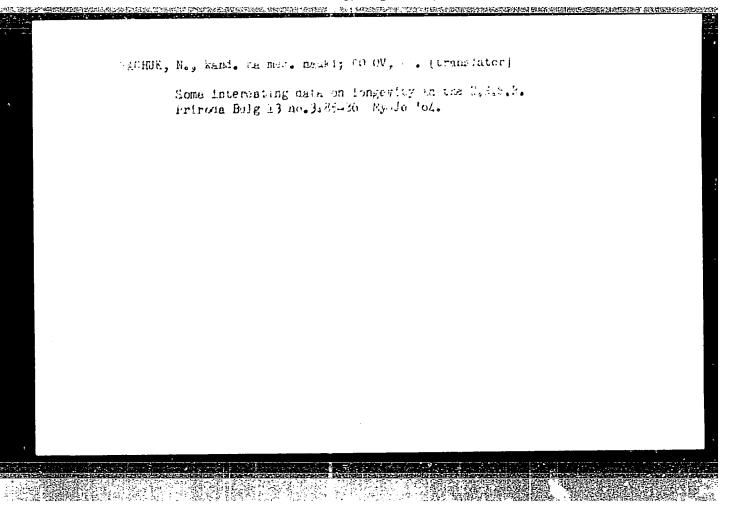
Electrom ographic examination of the mimetic musculature following recovery from Bell's palsy and in epinuclear lesions of the Falial nerve. Zhur. nevr. i psikh. 63 no.9: 1322-1328 '63. (MIRA 17:8)

1. Kafedra nervnykh bolezney (nachal'nik - prof. A.G. Panov) Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad.

KUCHEROV, Nikolay Iv.; POPOV, Al. [translator]

Practical importance of the problem of the conquest of the cosmos. Priroda Bulg 12 no. 6:34-39 N-D '63.

1. Main Astronomical Observatory in Pulkovo, U.S.S.R. (for Kucherov).



POPOV, A. L.

Viticulture

Viticulture on the consolidated "Biruintsa" Collective Farm. Vin SSSR 12 No. 8, 1952

9. Monthly List of Russian Accessions, Library of Congress, December 1958. Unclassified.

M VOTOG Zashchitnoye lesorazvebemiye panyatke cultivation of protective forests; handbook moskva, goblesbumizdat. 1950. 87 p illus., tables diagrs. at head of title; russia ministerstvo lesnogo khozyaystva.

CIA-RDP86-00513R0013423 APPROVED FOR RELEASE: Tuesday, August 01, 2000

FORCE, A. II.
Priero notarida preintelentà po a farrattio y mad al'eri chimie. I modele dito politoriale. Motando of se tel caput tion la aridi a tuo in close tare occupio; se con mi securi End. 2-c. Moskva, Velevadria, 1 52. 30 p.
SO: Monthly List of sussia: Mecossions, Vol 7, No 4, July 1954.
and the second s

POTCY, A.M.

Sewage - Furification

Improvement in purification of sewers. Gig. 1 san., no. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UMCLASSIFIED

MONTHLY LIST OF RUSLING ACCESSIONS, LIBRARY OF CONGRESS, MOVEMBER 1952. UNCLASSIFIED.

POPOV, Aleksandr Mikhsylovich; GRIGOR'YEV, Ye.P., red.; PEVZHER,
V.I., tekhn. red.

[Large-scale fattening of swine]hassovyi otkorm svinei. No-skva, Sel'khozizdat, 1961. 45 p. (MIRA 15:10)

1. Svinar'-mekhanizator sovkhoza "Borovichanin" Novgorod-skoy oblasti (for Popov).

(Swine-Feeding and feeds)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

GUTSEVICH, A.V.; DONETS, Z.S.; YEZHOVA, G.G.; POPOV, A.M.

Floodsucking mosquitoes (Dipters, Culicidae) of Chernovts;

Flovings: Ent. obox. 41 mc.2x355-358 '62. (MIRA 15:11)

(Bukovina—Mosquitoes)

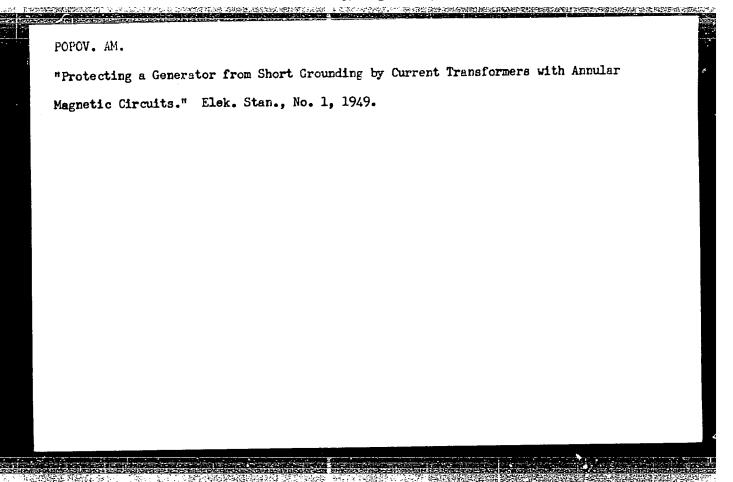
Low-temperature binding of polychlorovinyl coating sheaths and cold binding of polychlylene coating sheaths. Vest. sviazi 21 no.9:15-17 S '61. (MIRA 14:9)

1. TSentral'nyy nauchno-issledovatel'skiy institut svyazi Ministerstva svyazi SSSR. (Protective coatings) (Cables)

POPOV, Aleksandr Mikhaylovich, svinar'-mekhanizator; LEBEDEV, P.B., red.; KLYUCHEVA, T.D., tekhn.red.

[Producing 6/6 kilograms of pork every day] Kazhdyi den' 6/6 kilogrammov sviziny. Moskva, Izd-vo "Sovetskaia Rossiia," 1961. 19 p. (MIRA 1/4:6)

1. Sovkhoz "Borovichanin" Novgorodskoy oblasti (for Popov).
(Novgorod Province—Swine)



TCTOV, A. E.

Electric Kelays

Elimination of vibration of thw armature of the relay EN-524. Elek. sta. 23 no. 2, 1952. Inzh.

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

KULIZADE, Kyazim Novrus Ali ogly, dotsent, kandidat tekhnicheskikh nauk;

POPOV, A.M., redektor; GONCHAROV, I.A., redektor izdatel'stve

[Saving electric power and setting norms for the consumption of electricity in petroleum enterprises] Ekonomits elektroenergii i normirovanie elektropotrebleniis ma neftianykh promyslakh. Baku, Azerbaidzhanskoe gos.izd-vo neft. i nauchno-tekhnlit-ry, 1956.

(HIRA 10:9)

(Electric power distribution) (Petroleum industry)

8(3) AÙTHOR: Popov, A.M., Senior Engineer

TITLE:

Prevention of Damage by Rodents to Non-Metallic Cable Casings (Predotvrashcheniye povrezhdeniy gryzunami

nemetallicheskikh obolochek kabelya)

PERIODICAL:

Vestnik svyazi, 1959, Nr 3, pp 37-38 (USSR)

ABSTRACT:

In this article the author discusses various problems connected with the laying of underground cables, with PRVPM casings, such that they will not be subject to damage by rodents, which nest in the cavity along the cable, and briefly reviews several experiments and methods tried to this end. The author considers experiments using cables with casings containing shale oil, which had proven effective in the laboratory in discouraging rodents, but was found not to be 100% effective in the field. Experimental cables, using casings of RS-50 plastic with shale cables, using casings of RS-50 plastic. oil, tested in the laboratories of the scientificresearch institute of the Ministry of Public Health of the USSR, were laid in 1951. A line in the

Card 1/4

Prevention of Damage by Rodents to Non-Metallic Cable Casings

Stavropol' territory showed heavy rodent damage, and research in that direction ceased. The author is not satisfied, however, that shale oil is useless, and recommends further work with it and other substances. He reports that processing of cable casing surfaces with liquid chemicals, e.g. creoline has not met with positive results. The rest of the has not met with positive results. The rest of the article is almost entirely devoted to consideration of mechanical means of preventing rodent damages. A "packer" attached to the KUN-2 cable laying tool (see fig), proposed by Ye.P. Os'makov, which forms (see fig), proposed by Ye.P. Os'makov, which forms a dense layer of earth over the cable, and the application of which was described by I.N. Pogosyan (Vestnik svyazi, 1957, Nr 9), did not have the desired results. The author considers it more exsired results. The author considers it more exsired results. The author considers soil about the pedient to form a layer of loosened soil about the cable, which would completely fill the drain along the cable, and adds that it has been observed that rodent damage ceases when cables are buried in sand.

Card 2/4

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

Prevention of Damage by Rodents to Non-Metallic Cable Casings

According to the Stalingrad DRTS rodent damage, using their method of cable-laying, with two channels, and filling the drains and niches with loose earth, is not in evidence. In 1957 Ye.P. Os:makov, G.M. Timonin, and A.Ye. Cherepanov suggested the use of a thinner cutter (16 mm thick), placed under the lower blade of the KUN-2 (see fig), by which means the cable is placed at the bottom of a narrow slot 12-15 cm deep, and compressed by its walls. The author proposed a combination of the cutter and The author proposed a combination of the cutter and packer" on the cable-laying tool (see fig), which permits covering the cable with an additional layer of earth no less than 15 cm thick. The cutter also decreases the tractive effort, a fact confirmed by engineer A.I. Romanov of the Stavropol: DRTS during installation of a TSNIIS experimental-control cable; whereas the usual method of cable-laying required and additional DT-54 tractor, use of the cutter eliminated this need. The thin cutter also increases

Card 3/4

Prevention of Damage by Rodents to Non-Metallic Cable Casings

the depth of the cable channel (up to 1 m), which is necessary not only to prevent rodent damage, but also other mechanical injury. On the basis of experience on TsNIIS control lines, optimum construction of the removable cutter has been determined. The author concludes with several comments and suggestions for choosing future line routes in order to minimize the possibilities of rodent, and other, damage to cables, e.g. choosing a route outside of known rodent-infested areas. He also raises the possibility of extermination of rodents in areas where a cable route is planned. There is I figure.

ASSOCIATION: TSNIIS

Card 4/4

SOV/111-59-9-9/31

6(7) AUTHOR:

Popov, A.M., Senior Engineer

TITLE:

Blackening of the Insulation of PRVPM Cable in Under-

ground Lines

PERIODICAL:

Vestnik svyazi, 1959, Nr 9, p 12 (USSR)

ABSTRACT:

In this article the author describes blackening of the insulation on PRVPM cable in service, and experiments conducted to determine the causes of this phenomenon. The author briefly discusses discoloration of PRVPM cable insulation in service on underground lines, and states that it was established that white cable casings produced from plastic preparation Nr 230 tend to blacken, while the color of golden casings produced from plastic preparation Nr 38 does not change. It was proposed that blackening of the white casing resulted from the action of sulphureous compounds in the soil on the lead salt contained in the plastic preparation Nr 230. This proposition was checked and verified in the laboratory by exposing samples of

Card 1/3

SOV/111-59-9-9/31

Blackening of the Insulation of PRVPM Cable in Underground lines

PRVPM and PTVZh cable, with casings of plastic preparations Nr 230 and 38, to the (artificial) action of sulphureous compounds. Measurements were made of the insulation resistance of normal cable and cable which had blackened under natural as well as laboratory conditions. The samples studied were submerged in water containing 0.5% electrolyte for a period of 20 months. The results (measurements) are presented (Table 1,2). On the basis of these results the author concludes that quality of the cable is not lowered as a result of blackening, and that the samples were still suitable for service. The nature of the blackening and the border between the blackened and white zones in the casings tested is also discussed. In conclusion the author notes that observation of changes taking place in blackened cable casings is being continued. There are 2 tables.

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut svyazi Card 2/3

SOV/111-59-9-9/31

Blackening of the Insulation of PRVPM Cable in Underground Lines (TsNIIS) (Central Scientific-Research Institute of Communications).

Card 3/3

POPOV. A.M. Methods of splicing PHVPM cable sheathing. Vest.sviasi 20 no.2:9-12 F '60. (MIRA 13:5) no.2:9-12 F 160. 1. Starshiy inshener TScntral nogo nauchno-issledovatel skogo instituta svyazi. (Blectric cables)

33338 S/181/62/004/001/004/052

24 2700 (1043, 1137, 1482)

Gitsu, D. V., Ivanov, G. A., and Popov, A. M.

TITLE:

AUTHORS:

Thermoelectromotive force in bismuth and its alloys with

tellurium

PERIODICAL: Fizika tverdogo tela, v. 4, no. 1, 1962, 22 - 28

TEXT: Measurement was made of the thermo-emf α of Bi single crystals with a tellurium impurity. The temperature difference was between 2 and 10°C in dependence on the Te concentration. When the temperature gradient was oriented parallel to the trigonal axis, the differential thermo-emf was denoted by $\alpha_{||}$, for a perpendicular gradient it was $\alpha_{||}$; anisotropy was thus characterized by $\alpha_{\rm N}/\alpha_{\rm L}$. The measurements were carried out by a compensation method using a MTH-1 (PPTN-1) potentiometer and copperconstantan thermocouples. α dropped rapidly with increasing Te content (from 0 - 0.4 at%); the anisotropy also decreases, vanishing at 0.1 at% Te where the α_{\parallel} and α_{\perp} curves meet. In order to explain this behavior the rotation diagrams were taken for the thermo-emf of pure and impure single Card 1/4

Thermoelectromotive force in...

33338 \$/181/62/004/001/004/052 B102/B13a

Exact measurements showed that there was no anisotropy between 0.1 and 0.3 at% Te. From the equations of the isoenergetic surfaces of conduction and valence bands, on the assumption that the electron and hole mean free paths were independent of carrier energy for both pure Bi and its alloys,

$$\alpha_{j} = \frac{\sigma_{ij} \frac{\mu}{kT} - \sigma'_{ij} \frac{.1}{eT}}{\sigma_{ij}} . \qquad (8)$$

was found;

$$\sigma_{ij} = -\frac{2e^2\sqrt{2m_1m_2m_3}}{3\pi^2\hbar^3m_i} \delta_{ij} \int_0^\infty \tau E^{1/2} \frac{\partial f_0}{\partial E} dE \qquad (6)$$

$$\sigma'_{ij} = -\frac{2e^2\sqrt{2m_1m_2m_3}}{3\pi^2\hbar^3m_i} \delta_{ij} \int_0^\infty \tau E^{1/2} \frac{\partial f_0}{\partial E} dE. \qquad (7)$$

 μ denotes the level of chemical potential. For a relaxation time

Card 2/4

33338

Thermoelectromotive force in...

where

5/181/62/004/001/004/052 B102/B138

 $\tau_N E^{-1/2}$, $\alpha_j = \frac{k}{e} \left[\mu - \frac{2F_1(\mu^k)}{F_0(\mu^k)} \right]$ where μ^k is the reduced level of chemical potential. The same relation is found for total thermo-emf, if the contributions of the sets of ellipsoids are added. $\alpha_{ij} = \alpha_{ij} = \frac{1}{2\pi} \left(\mu_i - \frac{A^i}{2} \right)$.

$$A = -\frac{2e^3\sqrt{2m_1m_2m_3}}{3\pi^2\hbar^3} \delta_{ij} \int_0^\infty \tau E^{2/\epsilon} \frac{\partial f_0}{\partial E} dE, \qquad (21)$$

$$A' = -\frac{2a^2\sqrt{2m_1m_2m_2}}{3\pi^2\hbar^3} \delta_{ij} \int_{0}^{\infty} \tau E'^{ij} \frac{\partial f_0}{\partial E} dE.$$
 (22)

These relations hold if one electron remains in the Bi alloy with increasing Te content. This contains the vanishing anisotropy found experimentally. In anisotropic metals (Zn, Cd, Hg), semimetals (Bi, Sb) and semiconductors (CdSb) anisotropy may be considerable (Bi: $\alpha_{\parallel} = 96.6~\mu \text{w/deg}$, $\alpha_{\parallel} = 58.0~\mu \text{w/deg}$ at 18°C). There are 2 figures, 1 table, and 13 references: 6 Soviet and 7 non-Soviet. The four most recent references to English-language publications read as follows: G. E. Smith. Phys. Rev., 115, 1561, 1959; B. Abeles a. S. Meiboom. Phys. Rev., 101, Card 3/4.

Thermoelectrometive force in...

S/181/62/004/001/004/052 B102/B138

F. R. Drabble a. R. Wolfe. Proc. Phys. Soc., 69, 1101, 1956.

ASSOCIATION: Leningradskiy gosudarstvennyy pedagogicheskiy institut im.
A. I. Gertsena (Leningrad State Pedagogical Institute imeni
A. I. Gertsen)

SUBMITTED: June 21, 1961

Card 4/4

IVANOV, G.A.; POPOV, A.M.; CHISTYAKOV, B.I.

Electric properties of binary Bi alloys in a wide temperature range.
Part 1: Solid solutions of Sn., Sb., and Te in bismuth (polycrystals).
Fiz. met. i metalloved. 16 no.2:184-192 Ag '63. (MIRA 16:8)

1. Leningradskiy gosudarstvennyy pedagogicheskiy institut im.
A.I. Gertsena.

(Bismuth alloys) (Solutions, Solid)

Galvanomagnetic properties of solid solutions of Bi-Sb in the temperature interval 77°-300°K and the influence of the important impurity tellurium on their properties. G. A. Ivanov, A. M. Popov (15 minutes).

Report presented at the 3rd National Conference on Semiconductor Compounds, Kishinev, 16-21 Sept 1963

AFFTC/ASD EWP(q)/ENT(m)/BDS s/0181/63/005/005/1428 L 13028-63 AP3000626 ACCESSION NR: AUTHOR: Ivanov, G. A.; Popov, A. M. TITLE: Free path length of current carriers in bismuth and in its alloy antimony SOURCE: Fizika tverdogo tela, v. 5, no. 5, 1963, 1428-1429 TOPIC TAGS: specific resistance, Hall constant, free path, Bi, Ge, impurity layer, current carrier, polycrystalline material ABSTRACT: The authors have investigated changes (in the temperature interval 77-300K) in specific resistance and in the Hall constant for polycrystalline samples of Bi and for its alloys with Sb in relation to grain size and in comparisamples of BI and for its alloys with So in relacion to grain size and in composition with single-crystal amples. They found the free path to be dependent on grain size, and they have concluded that the changes are due to limitation of free path of current carriers by grain boundaries in polycrystalline material. They state that considerable error may dise in evaluating concentration and mobility of current carriers in Bi-Sb alloys on the basis of measurements made in polycrystalline material. Conclusions concerning the solubility of several impurities in Bi, based on the "semiconductor" path of specific resistance in

alloys, may be erroneous because of the formation of impurity layers during growth						
ductorii comes of sn	of single crystels. An alloy of Bi and 0.75 atomic percent Ge has a "semicon- ductor" course of specific resistance, but the authors have established that the					
Hell constant of this alloy is no different from the Hall constant for pure Bi in the temperature interval 77-300K. Orig. art. has: 3 figures and 1 formula.						
ASSOCIATION: Lening	redskiy gosudarstvenny*y State Pedagogical Instit	pedagogicheskiy ins	titut im. A. I.			
	DATE ACQ: 11Jun63					
SUB CODE: 00	no ref sov: 003	OTHER: 003				
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S/181/63/005/003/037/046 B102/B180

AUTHORS:

Ivanov, C. A., and Popov, A. M.

TITLE:

Variation in the region of the weak magnetic field in bismuth and its alloys with antimony as a function of

temperature

PERIODICAL: Fizika tverdogo tela, v. 5, no. 3, 1963, 946-948

THE THE PROPERTY OF THE PARTY O

TEXT: At room temperature the weak-field region extends to 1300 oe (H_{lim}), shrinking rapidly with falling temperature. At 77° K H_{lim} \simeq 600e. For Bi single crystals, Bi-Sb single crystals (7at%Sb), and compacted specimens the field strength dependence of the resistivity ratios (applied in parallel to the triginal axis) were measured with and without field. The graph shows that H for pure Bi (compacted polycrystals as well as single crystals) lies at higher field strengths (600e) than H_{lim} of the alloy (\sim 600e). As a temperature function for pure Bi H_{lim} increases monotonically from -200 to 0°C . There are 2 Card 1/2

S/181/63/005/005/037/046 B102/B180

Variation in the region of the weak ... B102/B:80

figures.

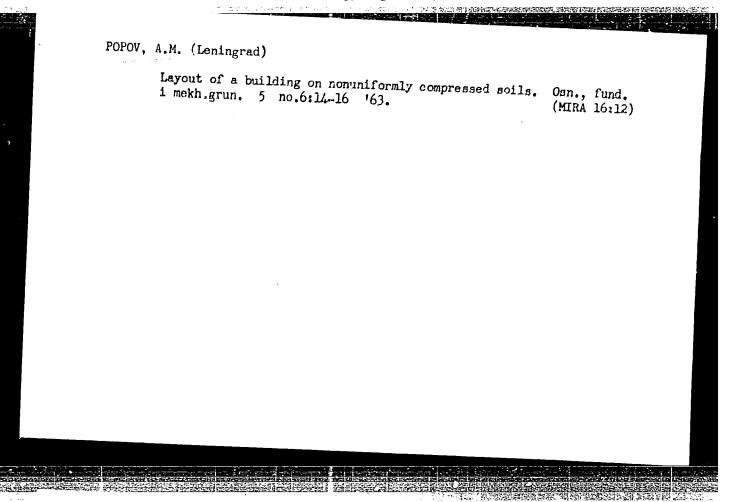
ASSOCIATION: Leningradskiy gosudarstvennyy pedagogicheskiy institut

im. A. I. Gertsena (Leningrad State Pedagogical Institute

imeni A. I. Gertsen)

SUBMITTED: November 3, 1962

Card 2/2



IVANOV, G.A.; POPOV, A.M.

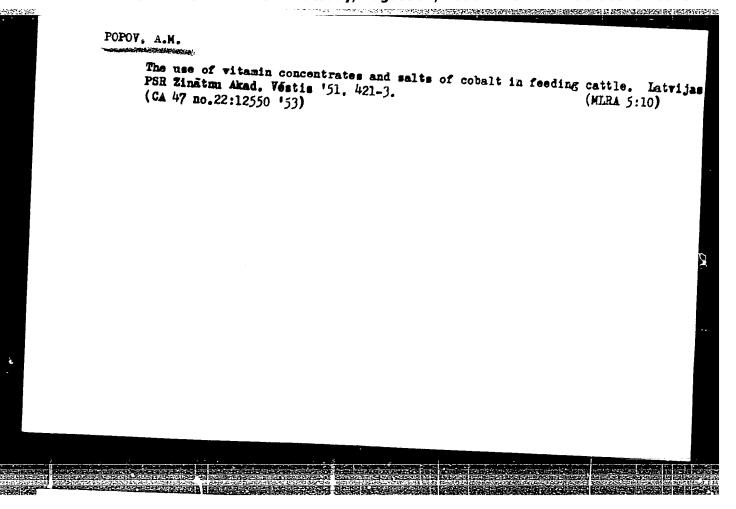
Electric properties of bismuth-antimony alloys. Fiz. tver tela 5 no.9:2409-2419 S '63. (MIRA 16:10)

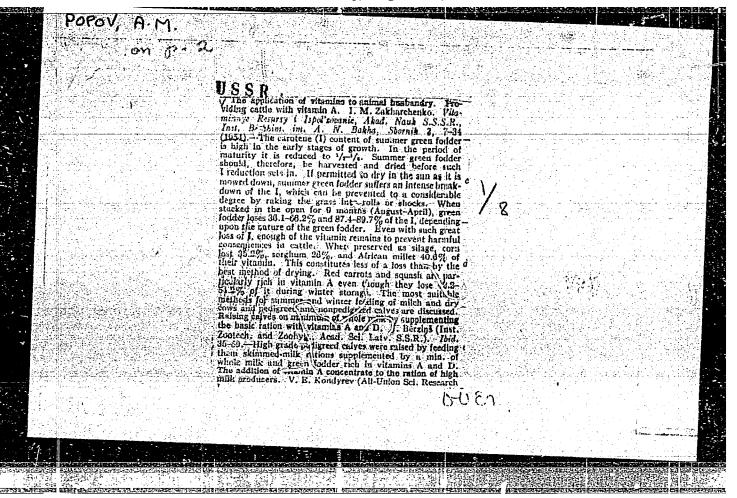
Leningradskiy gosudarstvennyy pedagogicheskiy institut im.

SHIROBOKOV, N.M., general-mayor aviatsii, voyennyy letchik pervogo klassa, KUZNETSOV, V.A. polkovnik, voyennyy letchik pervogo klassa, POPOV, A.M., polkovnik; VAZHIN, F.A., podpolkovnik; NAZAROV, O.A., mayor, Prinimali uchastiye: MARKOV, S.I., podpolkovnik, dotsent, kand. voyennykh nauk; D'YACHENKO, Yu.T., podpolkovnik, kand. voyennykh nauk; D'YACHENKO, G.Kh., mayor zapasa.

Other command posts could also operate this way. Vest. Vozd. Fl. no. 10:2-21 0 '60. (MIRA 13:11)

(Aerial warfare)





Inst. Agr. Animal Freeding): Ibid. 80-7.—Increase of the I co. sent of the animal ration to 800-800 mg, assures a vitamin A milk activity equal to 1.6-20 I.U. per ml. of milk of a level high enough for high-producing milch cows. The use of silamin concentrates and of cobalt satis in Acad. Sci. Law. S.S.I.C., Ibid. 88-70.—Three groups of 9 cows each were fed the same basic ration. Group I received in addo 20.000 I.U. of vitamin A. 000 I.U. of vitamins A and D as above, but no 6cls. Group 2 received vitamins A and D as above, but no 6cls. Group 3 the control group, was given the basic non only. Feeding expts. extended over 76 days. T. c av. daily wrincrease of group I was 32.3%, and of group 2, 13.5% above that of group 3. D-hyporitaminosis in calves. A. N. Melyukov (Agr. Inst., Ivanovo). Ibid. 71-5.—Four groups of 12-13 preguent cows each were fed a daily prescribed basic ration. Group I received in addn. 33.000 1.U. of vitamin D per heard per day; group II received both the vitamins and the chalk; animals of group IV, as the control group, received the basic expth. Intron only. Blood of all animals was examid. for Ca and inorg. P. Expts. extended over 6 months. The Ca and inorg. P. Expts. extended over 6 months. The Ca and inorg. P. Expts. extended over 6 months. The Ca and inorg. P. Level of the blood of the cows of group III throughout the expt. period was higher than in the cows of the control group. Clinically the cows of the control group presented a picture of ill health, but not these of groups I and III. Calves born to cows of the control group weighed on the av. 4.7 kg. less than those of the other groups and their proa picture of ill health, but not those of groups I and III.

Calves born to cows of the control group weighted on the av.

4.7 kg, less than those of the other groups and their progressive gain in wt. was of a lesser magnifinde. It was concluded (1) that in gestating cows and young calves the count Ca and inorg. P can be used as an indicator of sufficiency or insufficiency of the dietary victorin D; (2) that the rations of gestating barn-confined cows must be well balanced as regards the mineral and vitamin content; and (3) that diving the winter recool it may be necessary to

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013423

Abs Jour: Ref Zhur-Biol., No 4, 1958, 16800.

Author : Popov A.M.

: The Intensive Paising and Fattening of the Super-Inst numerary Youngs of the Brown Latvian Cattle Title (Intensivnoye vyrashchivaniye i otkorm sverkhremontalogo molodnyaka burogo latviyskogo skota)

Orig Pub: Izv. AN LatvSSR, 1956, No 1, 65-74.

Abstract: An experiment was carried out on 3 groups of young cattle (11 heifer-calves and 15 bull-calves) of the Brown Latvian breed. The experiment with heifers was ended at 6 months of age and that with young bulls was continued until 8 months of age, with 2 control slaughterings at 6 months 23 days

: 1/2

Card

Q.

USSR / Farm Animals. Cattle.

Abs Jour: Ref Zhur-Biol., No 9, 1956, 40413.

: Popov A. M., Aleynikov G. S. Author

: Not given. Inst

: The Effectsof The Frequency of Milking on the Title

Performance of Cows.

Orig Pub: Sb. tr. In-ta zootekhn. i zoogigiyeny.

LatvSSR, 1956, 8, 53-62.

Abstract: At the sovkhoz "Yelgavskiy" and at the kolkhoz

"Lachplesis", experiments were conducted as to the effect of the twofold and threefold milking of cows of the Brown Latvian breed upon their milk production. With the milk yield averaging 9-10 liters per 24 hours, the switching of cows from threefold to twofold milking produced

Card 1/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000

ACC NR: AR6033792

SOURCE CODE: UR/0058/66/000/007/E103/E103

AUTHOR: Glukhova, T. I.; Grabov, V. M.; Ivanov, G. A.; Popov, A. M.

TITLE: Electrical properties of quasi-binary alloys (Bi-Sb)-Te

SOURCE: Ref. zh. Fizika, Abs. 7E773

REF SOURCE: Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena, v. 265, 1965, 234-241

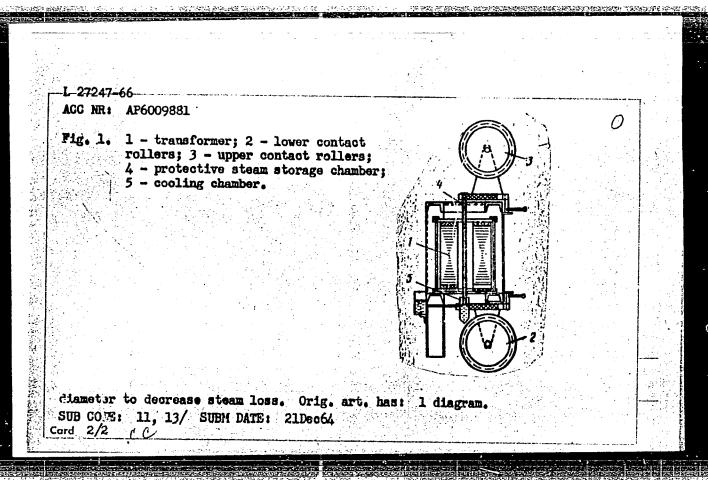
TOPIC TAGS: Hall effect, thermoelectromotive force, bismuth alloy, antimony alloy, tellurium alloy, temperature dependence, quasibinary alloy, binary alloy, conduction band

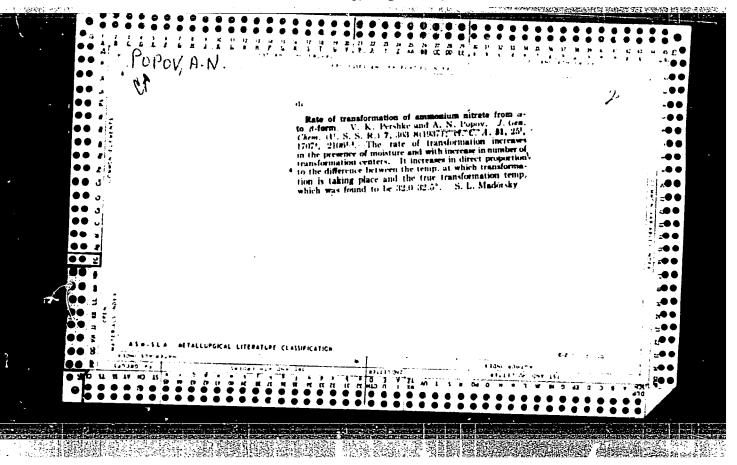
ABSTRACT: On the basis of investigation of the Hall effect, the specific resistance (ρ) and the thermoelectromotive force, a study is made of the structure of the conduction band in single and polycrystalline alloys (Bi-Sb)-Te, containing 3, 6, 8, 10, 15, and 20 at % of Sb, and 0.1, 0.2, and 0.3 at % of Te. It is found that the addition of T lowers ρ , while the addition of Sb raises it in comparison with the ρ of initial Bi-Sb alloys. The values of effective electron masses found (m*) correspond to the values m* in the initial alloys. Depending on the concentra-

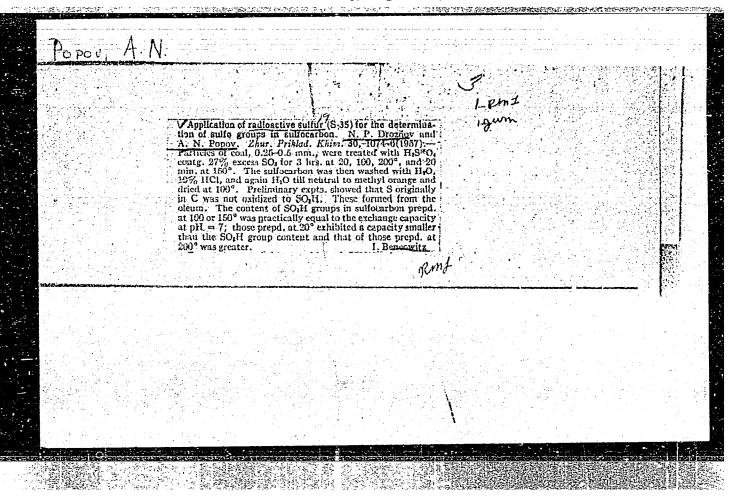
Cord 1/2

on of Sb at 300K, the c mith [RZhFiz., 1963, are dependence of m* c	character of the m* cha 7E617], obtained at 1. of the alloys investigate	nges is in accord with the data 3K, which indicates a low temped. [Translation of abstract]	era- [GC]
UB CODE: 20,11/		•	
		•	
	•		

L-27247-66 - EWP(k-)/EWT(d)/EWT(m)/EWP(h)/T/EWP(1)/EWP(v)/EWP(t) --IJP(c) JD AGC MR: AP6009881 SOURCE CODE: UR/0413/66/000/004/0071/0072 AUTHORS: Lisin, V. Z.; Chuyev, V. G.; Popov, A. M.; Korobov, V. I. B ORG: none TITLE: Device for induction annealing of copper wire. Class 40, No. 178996 Zannounced by Independent Construction Technology Bureau for Microconductors (Samostoyatel noye konstruktorsko-tekhnologicheskoye byuro po mikroprovodam) SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 71-72 TOPIC TAGS: annealing, copper, wire ABSTRACT: This Author Certificate presents a device for induction annealing of copper wire, which consists of a transformer, contact rollers, a protective steam storage chamber, and a cooling chamber. To annual bunches of copper wires in one transformer, the device has a system of lower and upper contact units consisting of two electrically insulated contact rollers (see Fig. 1). The protective steam storage chamber is in the form of a glass tube whose upper end has the form of a flange with a hole. The hole diameter is 2-3 times the annealed wire UDC: 621.365.51:621.785.3-426:669.3







SOV/76-32-11-14/32 5(4) Matorina, N. N., Popov, A. N.

AUTHORS:

The Effect of Temperature on the State of the Ion Exchange TITLE: Equilibrium (Vliyaniye temperatury na sostoyaniye ionoobmen-

nogo ravnovesiya) I. The Basic Factors Determining the Changes of Ion Exchange Adsorption With Temperature (I. Osnovnyye faktory, opredelyayushchiya izmeneniya ionoobmennoy adsorbtsii

s temperaturoy)

Zhurnal fizicheskoy khimii, 1958, Vol 32, Nr 11, pp 2557-2560 PERIODICAL:

(USSR)

After this work had been received by the board of editors some ABSTRACT:

papers on the thermodynamics of the ion exchange were published. The papers by E. H. Cruikshank, P. Meares and O. D. Bonner, L. L. Smith are said to be of special interest. Griessbach (Grissbakh) (Refs 7,8) on the basis of the equation (1) by Gregor-Glueckauf (Glyukauf) arrives at the conclusion that the coefficient of selectivity always changes with an increase in temperature. It is assumed that of two ions in the adsorbent the one that is more hydrated in the solution will be hydrated

to a greater extent. This agrees with the experimental results Card 1/3

501/76-32-11-14/32 The Effect of Temperature on the State of the Ion Exchange Equilibrium. I. The Basic Factors Determining the Changes of Ion Exchange Adsorption With Temperature

by Glueckauf and Kitt (Ref 12). Thus, the heat effect of the ion exchange adsorption on a certain cationite depends to a great extent on the hydration heat of the adsorbed ions. It was found that changes in temperature of the volumes of the adsorbed ions can have an effect on the temperature changes of the ion exchange adsorption, as well as changes of the swelling pressure and of the ratio between the activity coefficient of the ions in the solution and in the sorbent. A change of the composition of the ion exchange resin can also have an effect on the extent of the temperature changes of the icn exchange adsorption. The experimental data concerning the above-mentioned statements will be given in the next paper to be published. There are 12 references, 1 of which is Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut fizicheskoy khimii, Moskva (Academy of Sciences, USSR, Institute of Physical Chemistry, Moscow)

Card 2/3

5(4) AUTHORS:

Matorina, N. N., Popov, A. N.

SOY/76-32-12-18, 32

TITLE:

The Temperature Influence on the State of the Ion Exchange (Vliyaniye temperatury na sostoyaniye ionoobmennogo ravnovesiya) II. Temperature-Conditioned Changes in the Ion-Adsorption in Sulfo-Synthetic Resins (II. Temperaturnyye izmeneniya ionoobmennoy adsorbtsii na sul'fosmolakh)

医抗性溃疡 计通讯记录 的现在分词 的复数含有其类的现在形式的现在分词

PERIODICAL:

Zhurnal fizicheckoy khimii, 1958, Vol 37, Ur 12,

pp 2772 - 2779 (USSR)

ABSTRACT:

This is an investigation of the sulfo-polystyrene cationite SM -12 with a varying content of divinyl benzene (4, 8, 16 and 20%) and the cationite KU ·2. The selectivity coefficient in the exchange of the ion-pairs H⁺-Ca⁺⁺, H⁺-Sr⁺⁺, Sr⁺⁺ - Ca⁺⁺, H⁺-Ce⁺⁺⁺, K⁺-Ce⁺⁺⁺ and H⁺-Cs⁺ was determined. The ion concentrations were determined radiometrically by means of tracer atoms (Cs¹37, Ca⁴5, Sr⁸9, Ce¹44). The state of the ion-exchange was established for two temperatures. The heats of reaction in the ion-exchange are proportional to the heats of hydration of ions in solution. Their sizes and signs lepend on the relation of the heat

Card 1/2

The Temperature Influence on the State of the Ion SOV/76-32-12-18/32 Exchange. II. Temperature-Conditioned Changes in the Ion-Adsorption in Sulfo-Synthetic Regime

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of hydration of the ion in solution to that in the cationite. In the exchange of hydrogen ions apparent divergencies are noticed, but can be explained by the fact that the H⁺-ion is always represented in water as a hydroxonium ion (H₂O). On the basis of the calculations a quantitative prediction of the temperature-conditioned changes in the ion-exchange in sulfo-synthetic resins is possible. There are 8 figures, 3 tables, and 7 references, 1 of which is Soviet.

ASSOCIATION: Akademiya nauk SSSR (Academy of Sciences, USSR) Institut

fizicheskoy khimii, Moskva (Physico-Chemical Institute, Moscow)

SUBMITTED: May 10, 1957

Card 2/2

BARDIN, I.P., akademik, glavnyy red. [deceased]; VOL'FKOVICH, S.I., akademik, otv.red.toma; UVAROV, G.V., red.toma; KOMAROV, V.P., dotsent, red.toma; LAVRENT'IEV, M.A., akademik, red.; DIKUSHIH, V.I., akademik, red.; NEMCHINOV, V.S., akademik, red.; VEITS, V.I., red.; LEVITSKIY, O.D., red.; NEKRASOV, N.N., red.; PUSTOVALOV, L.B., red.; KHACHATUROV, T.S., red.; ROSTOVTSKV, N.F., akademik, red.; POPOV, A.N., red.; CRAFOV, L.Ye., red.; GASHEV, A.D., red.; PROBST, A.Ye., prof., red.; VASYUTIN, V.F., prof., red.; KROTOV, V.A., prof., red.; VASIL'YEV, P.V., doktor ekonom.nauk, red.; LYUDOGOVSKIY, G.I., kand.tekhn.nauk, red.; LETUNOV, P.A., kand.geol.-mineral.nauk, red.; SHKOL'NIKOV, M.G., kand.ekonom.nauk, red.; BANKVITSER, A.L., red. izd-va; BHUZGUL', V.V., tekhn.red.

[Chemical industry] Khimicheskais promyshlennost. Moskva, 1960. 202 p. (MIRA 13:7)

1. Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil. Sibirskoye otdeleniye. 2. Chleny-korrespondenty AN SSSR (for Veyts, Levitskiy, Nekrasov, Pustovalov, Khachaturov). 3. Vse-soyuznaya akademiya sel'skokhozyayatvennykh nauk imeni V.I.Lenina (for Rostovtsev). 4. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Popov). 5. Zamestitel' predsedatelya Gesplana RSFSR (for Grafov). 6. Chlen Gesplana RSFSR (for Gashev). 7. Zamestitel' predsedatelya Gesudarstvennogo komiteta Soveta Ministrov SSSR po khimii (for Uvarov). (Chemical industries)

BARDIN, I.P., akademik, glavnyy red. [deceased]; NEKRASOV, N.N., otv. red.tcma; SLAVIN, S.V., doktor ekon.mauk, red.toma; SHKOL'NIKOV, M.G., kand.akin.mauk, red.tcma; LAVRENT'YEV, M.A., akademik, red.; VOL'FKOVICH, S.I., akademik, red.; DIKUSHIN, V.I., akademik, red.; HEMCHINOV, V.S., akademik, red.; VEYTS, V.I., red.; LEVITSKIY, O.D., red.; PUSTOVALOV, L.V., red.; KHACHATUROV, T.S., red.; ROSTOVTSEY, N.F., akademik, red.; POPOV, A.N., red.; GRAFOV, L.Ye., red.; GASHEV, A.D., red.; PROBST, A.Ye., prof., red.; VASYUTIN, V.F., prof., red.; KROTOV, V.A., prof., red.; VASIL'YEV, P.V., doktor ekon.mauk, red.; LYUDOGOVSKIY, G.I., kand.tekhn.mauk, red.; LETUNOV, P.A., kand.geol.-mineral.mauk, red.; MAZOVER, Ya.A., red.; izd-va; KASHINA, P.S., tekhn.red.

[Comprehensive regional and interregional problems; [conference reports]] Raionnje i mezhraionnye kompleksnye problemy; [trudy konferentaii]. Meskva, Izd-vo Akad.nauk SSSR, 1960. 190 p.

(MIRA 14:1)

1. Kerferentsiya po razvitiyu proizvoditel nykh sil Vostochnoy
Sibird. 1958. 2. Chleny-korrespondenty AN SSSR (for Nekrasov,
Veyta, Levitskiy, Pustovalov, Khachsturov). 3. Sovet po izucheniyu
proizvoditel nykh sil pri Prezidiume Akademii nsuk SSSR (for Nekrasov,
Shkol nikov, Slavin). 4. Predsedatel Soveta po izucheniyu proizvoditel nykh sil pri Prezidiume AN SSSR (for Nemchinov).5. Vsesuyuznaya akademiya sel skokhozyaystvennykh nsuk im. V.I.Lenina (for
Rostovtsev). 6. Deystvitel nyy chlen Akademii stroitel stva i arkhitektury SSSR (for Panov). (Siberia, Rastern--Economic policy)

POPOV, A.N.; SPIVAK, A.I.; MAVLYUTOV, M.R.; Prinimali uchastiye: KOROTKOV, L.I., student; SANNIKOV, R.Kh., student

Analyzing a regime for the turbine drilling of wells. Burenis no.5:6-8 '64. (MIRA 18:5)

I. 55084-65 EWT(d)/EPA(s)-2/EWT(m)/EWP(w)/EPF(c)/EWG(s)-2/EWP(v)/EPR/T/
EWP(j)/EWP(k)/EWA(h) Pc_U/Pf_4/Pr_4/Ps_4/Pt_7/Peb/Pw_4 WW/EM/RM
ACCESSION NR: AF5018103 UR/0097/64/000/009/0412/0416

ANTHOR: Mikhaylov, K. V. (Candidate of technical sciences); Popov, A. M.
(Candidate of technical sciences); Pustovoytov, V. P. (Engineer)

TITLE: Concrete pressure pipes with continuous fibreglass peinforcement

SOURCE: Beton i zhelezobeton, no. 9, 1964, 412-416

TOPIC TAGS: reinforced concrete, pipe, fiberglass

ABSTRACT: Several years ago the Ecientific Research Institute of Reinforced Concrete of Gosstroy, USSR, together with the Khar'kov Institute of Municipal Construction Engineers, organized investigations of the development of technology and determination of the behavior under load of concrete pressure pipes, in which a steel-shell reinforcement was replaced by fibreglass filaments combined with synthetic resin. The results of these investigations are presented in the present article.

The delivery pipe with continuous fibreglass reinforcement consists of a reinforced concrete core prestressed longitudinally, and a fibreglass shall.

Card 1/2

L 55084-65			
ACCESSION NR: AP50181	3		<u> </u>
The shell is formed by fibreglass reinforceme of tape and to ensure synthetic binder is us etc resin.	winding onto this core several nt in the form of tape. To join joint action of the fibreglass ed, which can be epoxy, phenol- ons are made by the authors. I	n the separate turns shell and core, a formaldehyde, polyester,	
	-4-1 -4 Albana i can wat	Porcement in the mros	
is possible to replace duction of reinforced pipes are layed in grochemically active corrections.	steel wire with fibregiass reinconcrete delivery pipes, which and with a high saturation of stories selts. This is because finot deteriorate under these constitutions.	nforcement in the pro- ls expedient when tray currents and ibreglass, under cer-	
is possible to replace duction of reinforced pipes are layed in grochemically active corrections.	steel wire with fibregiass reliconcrete delivery pipes, which and with a high saturation of some selts. This is because finot deteriorate under these constitutions.	nforcement in the pro- ls expedient when tray currents and ibreglass, under cer-	
is possible to replace duction of reinforced pipes are layed in grochemically active corrtain conditions, does	steel wire with fibregiass reliconcrete delivery pipes, which and with a high saturation of some selts. This is because finot deteriorate under these constitutions.	nforcement in the pro- ls expedient when tray currents and ibreglass, under cer-	
is possible to replace duction of reinforced pipes are layed in grochemically active corretain conditions, does of the conditions of the c	steel wire with fibregiass reliconcrete delivery pipes, which and with a high saturation of some selts. This is because finot deteriorate under these concres, ligraph, 1 table. ENCL: CO	iforcement in the pro- ls expedient when tray currents and ibreglass, under cer- litions.	

10HOV, Aleksandr Nikolayevich, kand. tekhn. nauk; MEL'NIKOVA, Zh.M., red.

[Industrial construction] Fromyshlennoe stroitel'stvo. Moskva, Izd-vo "Znanie," 1964. 37 p. (Novoe v zhizni, nauke, tekhnike. IV Seriia: Tekhnika, no.13) (MIGA 17:8)

REKITAR, Yakov Arkad yevich, kand. ekon. nauk; FOPOV, A.N., prof., nauchn. red.

[Increasing the economic efficiency of capital investments in the building materials industry] Povyshenie ekonomicheskoi effektivnosti kapital'nykh vlozhenii v promyshlennost' stroitel'nykh materialov. Moskva, Stroitzdat, 1964. 217 p.

(MIRA 17:5)

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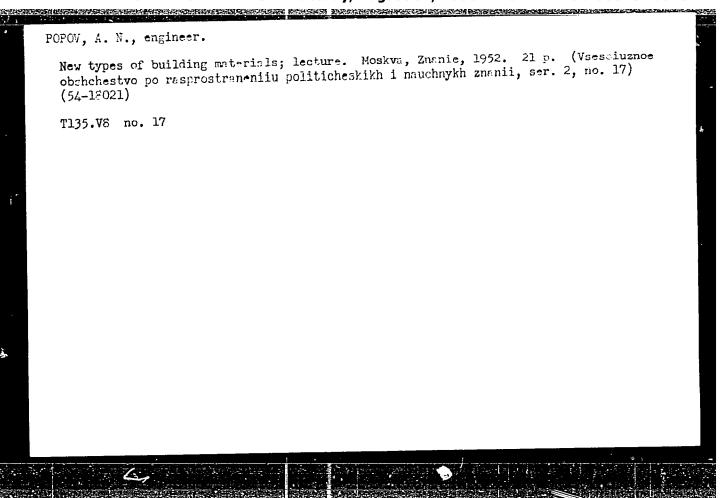
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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

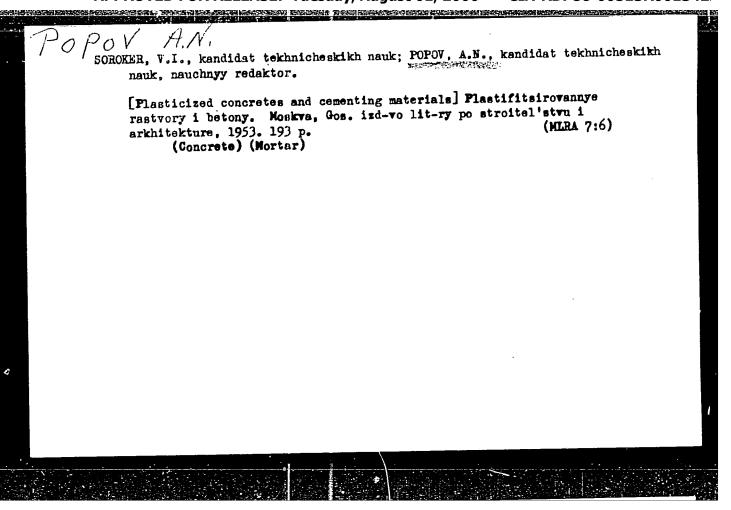


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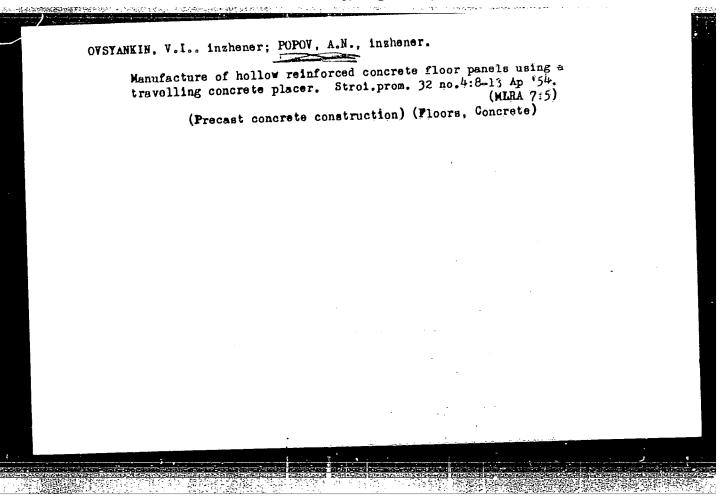
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POPOV, A. N.

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(Prestressed concrete)

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POPOV. A.N., professor; BEGAK, B.A., redaktor izdatel'stva; MEDVEDEV, L.Ya.,

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Pod red. A.H.Popova. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 226 p. (MIRA 10:1)

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PEPEV, A.N

Idashkin, V. I. (Engineer). AUTHOR:

97-57-9-15/17

TITLE:

All-Union Congress on Large Panel and Large Block Construction

(Vsesoyuznoye soveshchaniye po krupnopanel nomu i

krupnoblochnomu stroitel'stvu).

PERIODICAL: Beton i Zhelezobeton, 1957, Mr.9. p. 376. (USSR).

ABSTRACT:

The Scientific and Technical Association of the Building Industry of USSR (Nauchno-tekhnicheskoye obshchestvo stroitel noy promyshlennosti SSSR) and the Union of Architects of USSR (Soyuz arkhitektorov SSSR) organized this Congress to generalize experience of large panel and large block methods of residential building, and to further the development of this type of construction in USSR. The Congress was held from 4th - 10th June, 1957 in Chelyabinsk. Six hundred delegates attended, representing building organizations, planning and scientific organizations and factories manufacturing building materials. The congress was opened by the Secretary of the Chelyabinsk KPSS, N. V. Laptev. A paper on "The Present Position and KPSS, N. V. Laptev. A paper on Large Panel and Large Future Developments in the Use of Large Panel and Large Block Construction" was read by G. F. Kuznetsov, a member of the Academy of Building and Architecture of USSR (Akademii stroitel'stva i arkhitektury SSSR). A paper on

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All-Union Congress on Large Panel and Large Block Construction

"Material Resources for Large Panel and Large Block Construction Methods" was read by A. N. Ponov, also a member of the above Academy, and contributions on this subject were also made by the following: V. I. Bogomolov (Member of the Academy of Building and Architecture, USSR), Engineers the Academy of Building and Architecture, USSR), Engineers the Academy of Building and Architecture, USSR), Engineers P. F. Panfilov, V. M. Kopp and L. S. Raynus (Leningrad), A. B. Strutinskiy and V. A. Mikl ylov (Kiev), E. D. Samoylovich (Chelyabinsk), A. S. Krivorotov (Magnitogorsk), Candidate of Technical Sciences I. L. Zhodzishskiy (Sverdlov), Candidate of Technical Sciences I. L. Zhodzishskiy (Sverdlov), Candidate of Technical Sciences I. L. and V. G. Lelichenko (Zhdanov). Papers on the results of investigations into (Zhdanov). Papers on the results of investigations into the subject of large panel and large block building methods the subject of large panel and large block building and Architecture of USSR L. I. Onishchik, and A. V. Elkin; Doctor of Technical Sciences Prof. A. E. Desov; Candidates of Technical Sciences Prof. A. E. Desov; Candidates of Technical Sciences N. Ya. Spivak and E. M. Berzon, and Engineer A. A. Liberman read papers on the Technology of the production of large panels and blocks. It was generally agreed that large panels and blocks are too heavy. The answer lies in the technology of new building materials, especially in light aggregates and concretes. The high proportion of defective units damaged during transport and

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assembly causes concern. The Congress made a number of recommendations for expansion, improvement in quality and reduction in costs. Lightweight aggregates such as Keramzit and Termozit, etc., are advocated, together with clinker and furnace slag. Highly active, quick-hardening cement should be used. Further investigations should be carried out on aerated concrete. Study and experience of large panel and large block construction shows that it is possible to reduce the assembly time by at least 20 - 30% by using the continuous method of assembly by employing two or three shifts, and by improved methods of assembly. The Academy of Building and Architecture of USSR was approached by the Congress to study types of cranes suitable for this particular assembly work.

AVAILABLE:

Library of Congress.

1. Building industry-Conference

Card 3/3

BARANOV, N.V., red.; GALKIN, Ya.G., red.; KUZANETSOV, G.Y., red.; CVSYANKIN, V.I., red.; POPOV. A.N., red.; RUBANENKO, B.R., red.; SKRANFATEV, B.G., red.; GERASIMOVA, G.S., red.igid-va; EL'KINA, E.M., tekhn.red.

[Proceedings of the second session of the Academy of Construction and Architecture of the U.S.S.R. on problems of housing construction]

Trudy II sessii Akademii stroitel'stve i arkhitektury SSSR po yoprosam zhilishchu.ogo stroitel'stve, 15-20 mais 1957. g. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1958. 725 p.

(MIRA 11:5)

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(Housing)