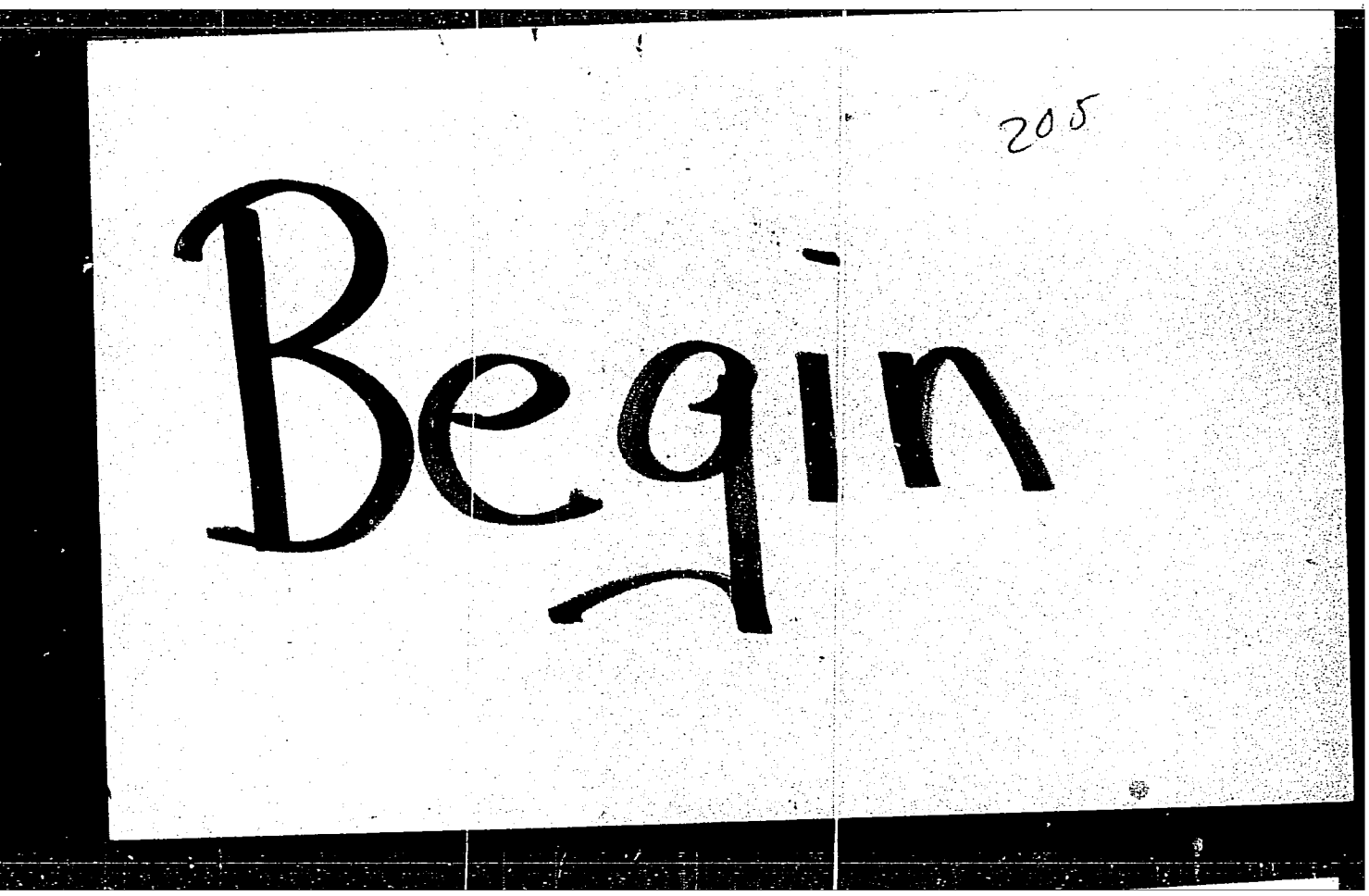


SMETANNIKOVA, A. V.

231T85

USSR/Meteorology - Actinometry Oct 52

"Setup for Actinometric Observations," A. V. Smetannikova, Leningrad Arctic Res Inst

"Meteorol i Gidrol" No 10, pp 45, 46

Author states that components of radiative budget of underlying surface should be observed simultaneously on several instruments in identical position in respect to the sun. Describes in detail "adequate" equipment, which was 1st constructed in the Arctic Res Inst by N. I. Telyayev in 1951 and tested on Lake Ladoga. It was used above the water surface in summer and under snow blanket in winter. States that the results were satisfactory.

231T85

231T85

SMETANNIKOVA, A.V.

Heat exchange between the sea and the atmosphere in the Arctic in winter. Trudy Okean. kom. 10 no.1:84-89 '60. (MIRA 14:6)

1. TSentral'nyy institut prognozov Glavnogo upravleniya gidrometeorologicheskoy sluzhby.
(Arctic region—Meteorology, Maritime)

S/169/62/000/005/050/093
D228/D307

heat-conductivity, and the temperature gradient in the snow. Some information is cited about the snow cover and the characteristic of the exchange of heat between the ocean and the atmosphere in the Arctic. The questions of the calculation procedure and the choice of the necessary parameters are considered. The obtained results are discussed, as are certain contiguous questions -- including the temperature regime of the snow and ice cover, the snow's influence on the formation of this regime, the influence of irregularities of the underlying surface, etc. [Abstracter's note: Complete translation.]

SMETANNIKOVA, A.V.

Calculation of anomalies of the heat loss in the autumn in the Kara Sea based on the anomalies of hydrometeorological elements. Trudy AANII 264:52-58 '63. (MIRA 17:6)

SMETANNIKOVA, Nadezhda Dmitriyevna, profsoyuznyy organizator gruppy brigady; MAKAROVA, E.A., red.; GOLICHENKOVA, A.A., tekhn. red.

[Educational work in a brigade of communist labor] Vospitatel'naia rabota v brigade kommunisticheskogo truda. Moskva, Izd-vo VTsSPS Profizdat, 1961. 101 p. (MIRA 15:2)
(Industrial relations)

IVANOV, V.M.; SMIRNOVA, Ye.V.; Prinimali uchastiye SMETANNIKOVA, T.L.

Experimental investigation of the rate of evaporation of a drop of liquid in a stationary high temperature medium. Trudy IGI 19:46-58 '62.
(MIRA 16:4)

(Liquids) (Evaporation)

ACC NR: AT6033564 SOURCE CODE: UR/0181/66/008/010/2853/2858

AUTHOR: Nasledov, D. N.; Popov, Yu. G.; Smetannikova, Yu. S.; Yassiyevich, I. N.

ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fiziko-tekhnicheskiy institut AN SSSR)

TITLE: Intrinsic photoconductivity and photomagnetic effect in p-InSb following electron heating

SOURCE: Fizika tverdogo tela, v. 8, no. 10, 1966, 2853-2858

TOPIC TAGS: photoconductivity, indium compound, antimonide, photomagnetic effect, carrier lifetime, relaxation process, electron energy

ABSTRACT: In view of the fact that earlier research has not established conclusively whether the optically induced oscillations of the photomagnetic effect and of the photoconductivity are connected with the oscillatory dependence of the lifetime of the nonequilibrium carriers or with heating of the carriers, the authors have carried out a simultaneous investigation of the photoconductivity and the photomagnetic effect in p-InSb samples to prove that the oscillations are due to electron heating. The photomagnetic and photoconductivity currents were measured at 5 - 8K using a procedure described earlier (FTT v. 5, 5031, 1963). The p-type samples were obtained by zone purification, and some of the samples were doped with copper to enhance the oscillation effect. The test results show that the connection between mobility and the diffusion coefficients agrees in order of magnitude with the usual Einstein rela-

Card 1/2

USSR/Physics - Conductivity of CdS FD-997

SMETANNIKOVA, Yu. S.

Card 1/1 : Pub. 153 1/24

Authors : Ryvkin, S. M.; Konovalenko, B. M.; and Smetannikova, Yu. S.

Title : Dependence of conductivity induced in layers and single-crystals of cadmium sulfide upon energy of exciting electrons

Periodical : Zhur. tekh fiz., 24, No. 6, 961-977, Jun 1954

Abstract : Present results of an investigation into the non-equilibrial (induced) conductivity in CdS layers that arises under the action of bombarding electrons with energies 2 to 30 kev. Show that, with decreasing energy of exciting electrons from 10 kev and lower, a sharp drop occurs in the "transverse" induced conductivity relative to unit energy incident on the specimen. This drop is explained by the decrease in depth of penetration of the electrons into the substance. An analogy exists between this drop in induced conductivity and the drop in photo-conductivity in the depth of the particular zone of light absorption. Acknowledge advice of D. N. Nasledov. Twelve references: 7 USSR (L. G. Paritskiy, B. M. Angelov, S. V. Starodubtsev, V. P. Zhuze, V. A. Arkhangel'skaya, A. M. Bonch-Bruyevich, S. M. Ryvkim).

Institution : -

Submitted : February 8, 1954

NASLEDOV, D.N.; SMETANNIKOVA, Yu.S.

Photomagnetic effect in p-type indium antimonide single crystals.
Fiz. tver. tela 1 no.4:556-558 '59. (MIRA 12:6)

1. Leningradskiy fiziko-tekhnicheskiy institut AN SSSR.
(Indium antimonide crystals--Magnetic properties)

81772
S/181/60/002/02/09/033
B006/B067

24.2600

AUTHORS: Nasledov, D. N., Pronina, M. P., Smetannikova, Yu. S.

TITLE: Spectral Distribution of Photosensitivity in p-Type Indium Antimonide

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 2, pp. 239-241

TEXT: Several publications of various authors dealt with this subject, however, the results did not allow to draw conclusions as to the dependence of photosensitivity of InSb on the acceptor concentration. To investigate this dependence, the authors of the present paper measured *the spectral dependence of photoconductivity and of the photomagnetic effect* of a number of p-type samples on the acceptor concentration in the range $10^{13} - 10^{15}$ cm^{-3}. The single crystal samples had a size of $4 \cdot 1 \cdot 0.1$ mm^3; after grinding, the surfaces were also treated with an etching agent. The infrared radiation was monochromatized with an ZMP-2 (ZMR-2) monochromator with NaCl crystal. All measurements were made at the temperatures of liquid nitrogen. The spectral distribution

Card 1/3

Spectral Distribution of Photosensitivity in p-Type Indium Antimonide

S/181/60/002/02/09/033
B006/B067

curves of photoconductivity and of the photomagnetic effect are shown in Fig. 1. It was found that the shape of the curves was independent of the acceptor concentration, and that the absolute sensitivity of pure samples was much higher. The width of the forbidden zone proved to be independent (within the accuracy of measurement) on purity ($\sim$ 0.22 ev). The absolute sensitivity in the conductivity maximum for samples with a concentration of 10^{13} cm^{-3} was 4000 v/w, the absolute sensitivity in the maximum of the photomagnetic effect for the same samples was only approximately 40 v/w. The photoconductivity of a number of samples was investigated in the temperature range between 78 and 205°K. Fig. 2 shows the curves recorded for a sample with $3 \cdot 10^{13}$ acceptor atoms/cm^{-3}. The widths of the forbidden zone are given in a table for different temperatures. The following was obtained for the coefficient of the temperature shift: $\Delta E/\Delta T =$ $= -2.4 \cdot 10^{-4}$ ev/deg, which is in good agreement with other data from publications. As may be seen from Fig. 2, the maximum of spectral sensitivity becomes wider with increasing temperature, and at the temperature of dry ice a second maximum is observed on the edge of the

8[1772]

Spectral Distribution of Photosensitivity in p-Type Indium Antimonide

S/181/60/002/02/09/033
B006/B067

curve. The curves coincide in the short-wave part. There are 2 figures, 1 table, and 7 non-Soviet references.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR Leningrad (Physico-technical Institute of the AS USSR, Leningrad)

SUBMITTED: June 5, 1959

Card 3/3

9.4177
9.4178 (1035,1482)
76.8471

33350
S/181/62/004/001/019/052
B108/B104

AUTHORS: Nasledov, D. N., and Smetannikova, Yu. S.

TITLE: Temperature dependence of the carrier lifetime in indium antimonide

PERIODICAL: Fizika tverdogo tela, v. 4, no. 1, 1962, 110 - 121

TEXT: The temperature dependences of carrier lifetime and diffusion length in p- and n-type indium antimonide with impurity concentrations of $10^{13} - 10^{15}$ cm^{-3} have been studied in the interval of 90 - 180°K. The carrier lifetimes were determined from the photomagnetic and the photoelectric current by a method suggested by S. Kurnick et al. (J. Appl. Phys., 27, 278, 1956). Equilibrium carrier concentration and mobility data were determined from measurements of Hall constant and electrical conductivity. The specimens were InSb single crystals purified by zone melting and polished by etching. The lifetimes determined from photoconductivity and from the photomagnetic effect, i. e., electron and hol- lifetimes, were different, particularly at low temperatures. This is explained by the trapping of nonequilibrium minority carriers, particularly in p-type speci-

Card 1/3 2

Galvanomagnetic properties of indium antimonide doped with elements from the first and second groups, in the temperature interval 4.2 to 300°K. K. I. Vinogradova, D. N. Nasledov, Yu. G. Popov, Yu. S. Smetannikova.

Electrical properties of doped crystals of indium antimonide in a wide range of temperatures and impurity concentration. V. V. Galavanov, D. N. Nasledov, A. S. Filipchenko.
(Presented by V. V. Galavanov--15 minutes)..

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

VINOGRADOVA, K.I.; MASLEBOV, G.N.; POPOV, Yu.G.; SMETANNIKOVA, Yu.S.

Electric properties of indium antimonide doped with various impurities. Izv. AN SSSR. Ser. fiz. 28 no.5:959-962 Je '64. (MIRA 17:7)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR.

L 11996-65 EWT(m)/EPF(c)/EWP(t)/EWP(b) Pr-4 IJP(c)/AFWL/ASD(a)-5/AFETR/SSD/RAEM(a)/ESD(gs)/ESD(t) JD

ACCESSION NR: AP4048412 S/0181/64/006/011/3351/3356

AUTHORS: Nasledov, D. N.; Popov, Yu. G.; Smetannikova, Yu. S. B

TITLE: The mechanism of carrier scattering in p-type InSb at 8°K 27

SOURCE: Fizika tverdogo tela, v. 6, no. 11, 1964, 3351-3356

TOPIC TAGS: carrier scattering, indium antimonide, photomagnetic current, Hall coefficient, electric conductivity, Hall mobility

ABSTRACT: An analysis is given of the data on the photomagnetic current at 8K as a function of the magnetic field ($B = 0.01$--1 Wb/m^2) and illumination ($\lambda = 2\mu$) intensities (10^{14}--10^{16} quanta.cm^{-2}.sec^{-1}), and on the temperature dependences (8--100K) of the Hall coefficient, electrical conductivity and Hall mobility for samples of zone-purified p-type InSb containing 10^{15}--10^{16} cm^{-3} acceptors ($\rho = 10^{15}$--10^{16} cm^{-3} at liquid nitrogen temperature). From these data, the dominant scattering mechanism at helium temperatures was deduced by the method of 27

Card 1/3

L 11996-65
ACCESSION NR: AP4048412

A. R. Beattie and R. W. Cunningham (Phys. Rev., v. 125, 533, 1962). The photomagnetic effect indicated that in compensated samples the scattering on impurity ions predominated, while in uncompensated samples, the scattering on neutral impurities predominated. This result was confirmed qualitatively by the galvanomagnetic measurements. From the photomagnetic data the values of the electron Hall mobilities were determined for B = 0. They were 7.2×10^5, 6.6×10^5, and 6.4×10^5 $cm^2 \cdot v^{-1} \cdot sec^{-1}$ for three different samples. The values of the lifetime τ_n and the surface recombination velocity S_n for electrons were found as a function of the nonequilibrium electron density Δn_0. The value of τ_n fell on increase of Δn_0. The absolute values of τ_n lay between 8×10^{-11} and 2×10^{-9} sec. The dependence $S_n(\Delta n_0)$ was approximately the same as those reported by S. W. Kurnick and R. N. Zitter (J. Appl. Phys., v. 27, 278, 1956). The maximum value of S_n did not exceed 7×10^4 cm/sec, i.e., it was less than found by Kurnick and Zitter at 80K. Orig. art. has: 6 figures, 1 table and 2 formulas.

Card 2/3

L 11996-65
ACCESSION NR: AP4048412

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. M. Ioffe, AN SSSR, Leningrad (Physico-Technical Institute, AN SSSR)

SUBMITTED: 01Jun64 ENCL: 00

SUB CODE: SS, EM NR REF SOV: 000 OTHER: 004

Card 3/3

L 16128-65 EWT(l)/EWG(k)/EEC(t) Pz-6 IJP(c)/ESD(t)/ESD(gs)/SSD/AFWL/ ASD(a)-5/AS(mp)-2 AT

ACCESSION NR: AP5000687 S/0181/64/006/012/3728/3730

AUTHORS: Nasledov, D. N.; Popov, Yu. G.; Smetannikova, Yu. S. 21 B

TITLE: Oscillations of intrinsic photoconductivity and of the photomagnetic effect in n-type InSb

SOURCE: Fizika tverdogo tela, v. 6, no. 12, 1964, 3728-3730

TOPIC TAGS: indium antimonide, photoconductivity, photomagnetic effect, electron phonon interaction, impurity band

ABSTRACT: The authors observed oscillations in the intrinsic photoconductivity and in the photomagnetic effect of n-type InSb at 8°K, using the same measurement procedure, apparatus, and sample-preparation technology as described earlier (FTT v. 5, 5031, 1963). These oscillations are similar to those observed by others at liquid-helium temperatures and had the same period of oscillations (0.025 eV). The oscillations of the photomagnetic currents were much

Card 1/4

L 16128-65
ACCESSION NR: AP5000687

larger in amplitude than those of the photoconductivity. The spectral distributions of the two effects are shown in Figs. 1 and 2 of the Enclosure. The minima coincide approximately with the calculated minima of photoresponse for the case of interaction between non-equilibrium electrons and longitudinal optical phonons. The peak near the edge of the intrinsic absorption edge is attributed to other factors. It is concluded that to explain the observed effect it is necessary to make use of the model wherein the non-equilibrium electrons are captured by the donor impurity band (H. J. Stocker et al., Phys. Rev. Lett. v. 12, 163, 1964). Orig. art. has: 2 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR (Physicotechnical Institute, AN SSSR)

SUBMITTED: 10Jul64 ENCL: 02

SUB CODE: IC, EM NR REF SOV: 001 OTHER: 004

Card 2/4

L 16128-65
ACCESSION NR: AP5000687

ENCLOSURE: 01

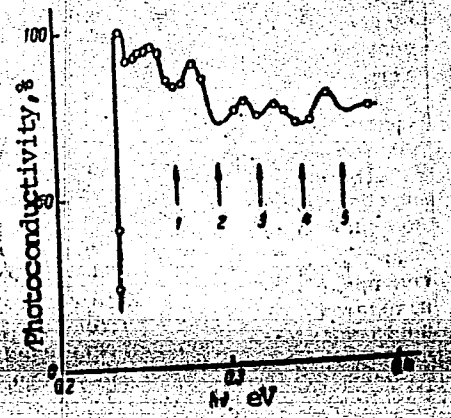


Fig. 1. Spectral distribution of photoconductivity in n-type InSb at 8°K

Card 3/4

L 16128-65
ACCESSION NR: AP5000687

ENCLOSURE: 02

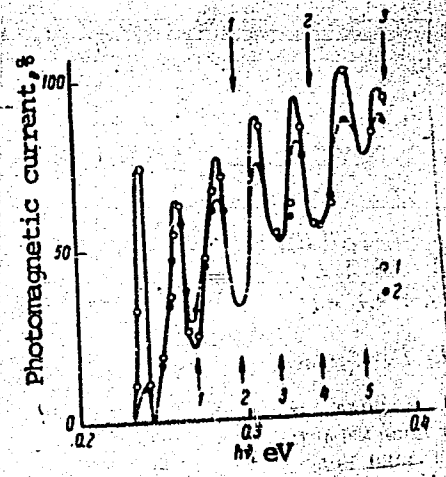


Fig. 2. Spectral distribution of the photomagnetic effect in n-type InSb at 8°K

Magnetic field intensity - 400 (1) and 4000 Oe (2).

Card 4/4

L 21721-65 EWT(m)/EPF(c)/EWP(t)/EWP(b) Pr-4 IJP(c)/BSD/APWL/ASD(a)-5/
BSD/AS(mp)-2/AFETR/RAEM(a)/ESD(gs)/ESD(t) JD

ACCESSION NR: AP4041284 S/0048/64/028/006/0959/0962

AUTHOR: Vinogradova, K. I.; Popov, Yu. G.; Svetannikova, Yu. S.; Nasledov, D. N. (Doctor of physico-mathematical sciences)

TITLE: Electric properties of indium antimonide doped with different impurities (Report, Third All-Union Conference on Semiconductor Compounds held in Kishinev 16-21 September 1963)

SOURCE: AN SSSR. Izvestiya, Seriya fizicheskaya, v.28, no.6, 1964, 959-962

TOPIC TAGS: semiconductor, semiconductor research, electric properties, electric conductivity, Hall effect, temperature dependence, indium antimonide

ABSTRACT: The present study was undertaken in view of the paucity of data on the electric properties of doped indium antimonide and the location of impurity levels in such InSb crystals. The primary purpose of the investigation was to determine the position and effect of acceptor impurity levels. There were investigated primarily InSb crystals doped with Zn and Ca (elimination of which from InSb by zone refining is difficult) and Cu, which is a frequent contaminant. The impurities were introduced into the purified n-type indium antimony ingots by zone leveling immediately after the purification without opening the sealed tube containing the material.

Card 1/2

L 21721-65
ACCESSION NR: AP4041354

2

This precluded change from n-type to p-type conductivity, reported to occur as a result of some heat treatments. The measurements consisted in determining the temperature dependence of the conductivity and Hall constant in the range from 5 to 100°K. The measurements were made in helium gas in a metal cryostat with the temperatures being determined by a Brodley carbon/thermistor in the lower range and by a copper-constantan thermocouple in the high range. The temperature dependences are presented in the form of curves. The results of evaluation of the activation energy are given in a table. Orig.art.has: 2 formulas, 2 figures and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut im.A.F.Ioffe Akademii nauk SSSR (Physico-technical Institute, Academy of Sciences SSSR)

SUBMITTED: 00 ENCL: 00

SUB CODE: SS,EM NO REF SOV: 002 OTHER: 004

Card 2/2

MOTYCKA, K.; SOUCEK, J.; SLAVIK, K.; JIRASEK, J.; JIRASEK, A.; Technical assistance: SMETANOVA, R.; FRANTOVA, L.; SIMONOVA, A.

The treatment of experimental mouse hemoblastosis. I. The effect of some new folic acid antimetabolites on cell transplanted leukemia in mice of the AKR strain. Neoplasma (Bratisl.) 11 no.4: 389-397 '64.

1. Institute of hematology and blood transfusion, Prague, Laboratory of protein metabolism and proteosynthesis, Charles University, Prague, I-st pathological-anatomical institute, Charles University, Pregue, Czechoslovakia.

MOTYCKA, K.; SOUCEK, J.; SIAVIK, K.; Technical Assistance: SMETANOVA, R.; FRANTOVA, L.; SIMONOVA, A.

The treatment of experimental mouse hemoblastosis. II. The effect of long-term administration of some folic acid antagonists on mice of the AKR strain. Neoplasma (Bratisl.) 11 no.4:399-408 '64.

1. Institute of hematology and blood transfusion, Prague, Laboratory of protein metabolism and proteosynthesis, Charles University, Prague, Czechoslovakia.

KOZLOVSKIY, L.I.; TUSHNYAKOV, M.D.; STEPANOV, A.I.; KORNEYEV, N.A.; SMETANSKIY, F.V.; SHEPET'YEV, A.I., red.; SPIVAK, S.V., nauchnyy red.; LOGINOVA, R.A., red.; KOGAN, F.L., tekhn. red.

[Hoisting, conveying, and special machinery for building and repair work] Pod"emno-transportnye i spetsial'nye mashiny dlia stroitel'nykh i montazhnykh rabot; katalog spravochnik. Pod red.A.I.Shepet'eva. Moskva, No.2.[Crauler cranes] Krany na gusenichnom khodu. 1963. 226 p. (MIRA 16:8)

1. TSentral'nyy institut nauchno-tekhnicheskoy informatsii po avtomatizatsii i mashinostroyeniyu.
(Cranes, derricks, etc.)

SMETANYUK, G., inzh.

Practices in the use of a disinfecting machine for corn seeds. Muk.-elev. prom. 28 no.7:10-11 Jl '62. (MIRA 15:9)

1. Lozovskiy zavod po obrabotke semyan kukuruzy.
(Corn (Maize))
(Seeds--Disinfection)

3(3) SOV/62-59-2-35/40

AUTHORS: Topchiyev, A. V., Krentsel', B. A., Perel'man, A. I., Smetanyuk, V. I.

TITLE: Polymerization of Ethylene on the Chromium-oxide Catalyst at Atmospheric Pressure and in the Absence of a Solvent (Polimerizatsiya etilena na okisnokhromovom katalizatore pri atmosfernom davlenii i v otsutstviye rastvoritelya)

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, 1959, Nr 2, pp 365-366 (USSR)

ABSTRACT: The authors report in the present news in brief that they succeeded in obtaining polyethylene on the chromium-oxide catalyst at atmospheric pressure and without a solvent at 110-180°. The yield of the polymer depends on temperature and on the time of contact of ethylene with the catalyst (Figs 1,2). A polymer with the melting point of 123-137° and h_x 0.4 - 0.5 was obtained. Low-molecular (liquid) reaction products could not be detected. On the polymerization of ethylene without pressure but in the presence of a solvent no polymer was formed. The oxygen content in ethylene (0.3-0.4%) did not influence poly-

Card 1/2

5(3) SOV/62-59-7-35/38

AUTHORS: Topchiyev, A.V., Perel'man, A. I., Smetanyuk, V. I., Krentsel', B. A.

TITLE: The Synthesis of Polypropylene on Chromium Oxide Catalyst (Polucheniye polipropilena na okisno-khromovom katalizatore)

PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 7, pp 1346-1349 (USSR)

ABSTRACT: A brief introduction is given concerning the data found in publications concerning the production of the compound mentioned in the title with chromium oxide catalysts (Refs 1-4). The present paper deals with the investigation of the influence on the polymerization of propylene on chromium oxide by the addition of $Al(alkyl)_3$. The experiments were carried out by A.N. Tsyba at the Institute mentioned in the Association. Without addition of $Al(alk)_3$ 90% crystalline polypropylene was obtained with but a low yield. The reaction in an autoclave took place at a temperature of 105° and a pressure of 25-30 atm and lasted 4-5 hours. The polymers obtained were investigated radiographically and thermomecha-

Card 1/2

nically. The thermomechanical analysis was made by I. Yu. Marchenko. The table shows the characterictics of the polymers and secondary products. The yield of solid polymer was found to increase with rising ratio Al/Cr (Fig 1). Thermomechanical investigations further revealed that the polypropylene obtained is a solid crystalline substance at 130°, whereas it becomes viscous at temperatures of 150°. There are 2 figures, 1 table, and 6 references, 3 of which are Soviet.

ASSOCIATION: Institut nefti Akademii nauk SSSR (Institute of Petroleum of the Academy of Sciences, USSR)

SUBMITTED: January 19, 1959

L 17235-63 BDS/EWP(j)/EPF(c)/EWP(q)/EWT(m)/FCS(f)--ASD--Pc-4/
Pr-4--RM/WW/JD

ACCESSION NR: AP3006529 S/0191/63/000/009/0004/0009

AUTHOR: Topchiyev, A. V. (Deceased); Smetanyuk, V. I.; Perel'man, A. I.; Wu, Kuei-Fang

TITLE: Polymerization of olefins on chromium oxide catalysts. Polymerization of propylene

SOURCE: Plasticheskiye massy*, no. 9, 1963, 4-9

TOPIC TAGS: polyolefins, olefins, olefin polymerization, polymerization, polypropylene, isotactic polypropylene, crystalline polypropylene, amorphous polypropylene, propylene, propylene polymerization, condition, polymerization condition, propylene polymerization condition, pressure, solvent, triisobutylaluminum, chromium oxide, chromium oxide catalyst, silica gel, silica gel carrier, carrier, catalyst activation, reaction time, yield, polymerization rate, intrinsic viscosity, copolymerization, autocopolymerization, continuous polymerization, propylene continuous polymerization, batch polymerization, property modification

Card 1/3

L 17235-63

ACCESSION NR: AP3006529

the yield of dimers and amorphous PP rises sharply. These yield changes suggest that the α-olefins copolymerize with propylene to form amorphous PP. Such "autocopolymerization" can be used to modify the properties of a number of polyolefins, e.g., to improve elasticity and flexibility. The buildup of liquid products (γ- and β-olefins) in the reaction mixture with time (see Fig. 1) leads to catalyst deactivation, which in turn decreases the high-molecular polymerization rate. Hence, removal of liquid products from the reaction zone should lead to a marked increase in this rate. This effect was evidenced by the flow-reactor polymerization, in which liquid oligomers were continuously removed along with propylene: as compared to autoclave polymerization at low pressures, the yield of crystalline PP is higher (1.05 g/g catalyst at 6 hr reaction time as against about 0.8 g/g catalyst at 10 atm gage), and that of amorphous PP, 50% lower. It is concluded that the only promising production process for making crystalline PP using chromium oxide catalyst is continuous polymerization.

ASSOCIATION: none

Card 3/3

TOPCHIYEV, A.V. [redacted]; SMETANYUK, V.I.; ISRAILYAN, L.I.

Polymerization of ethylene on oxide nickel-chromium catalysts. Plast. massy no.7:3-5 '64. (MIRA 17:10)

L 10195-66 EWT(m)/EWP(j)/T RM

ACC NR: AP5028543 SOURCE CODE: UR/0286/65/000/020/0159/0159

AUTHORS: Aerov, M. E.; Traynina, S. S.; Smetanyuk, V. I.; Topchiyev, A. V.; Nikitina, N. N.; Perel'man, A. I.

ORG: none

TITLE: Method for polymerization of olefins. Class 12, No. 147175

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 159

TOPIC TAGS: polymer, polymerization, olefin, catalytic polymerization, catalyst, catalyst regeneration

ABSTRACT: This Author Certificate presents a method for polymerization of olefins on a solid catalyst dissolved in a solvent. The catalyst is separated from the polymer by dissolving the polymer in a suitable solvent. To carry out the process in one apparatus and to increase the quality of polymer, the process is carried out in a pulsating ascending solvent flow. The temperature of the lower flow section is kept at 80—120C and that of the upper separating section at 140—180C. To increase the degree of separation of catalyst from polymer, the flow velocity in the lower section is larger than in the upper separating section.

SUB CODE: 07/ SUBM DATE: 30Mar61

Card 1/1

YUGOSLAVIA

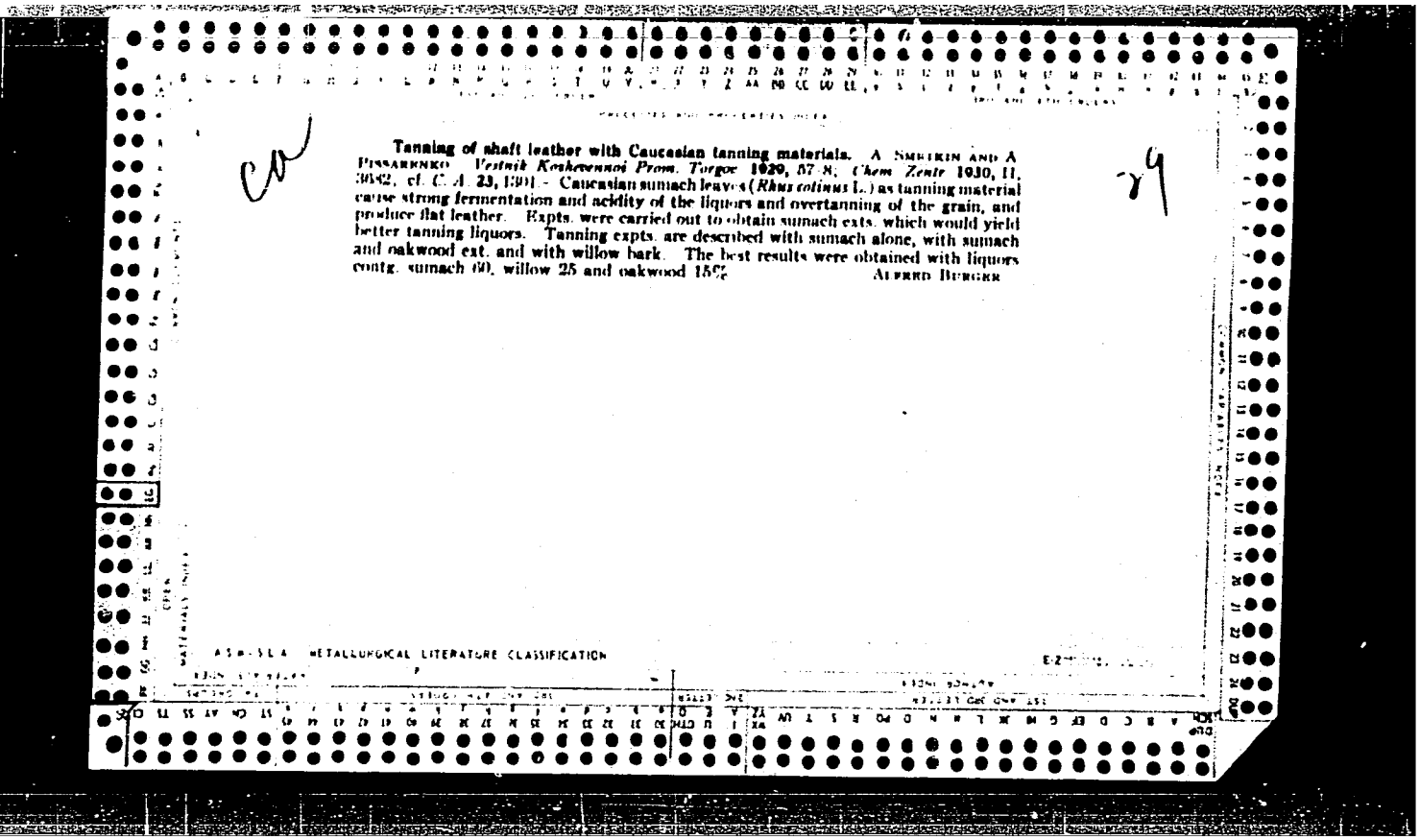
KURPES, Zvonimir; and SMETISKO, Ante, Department of Internal Medicine of the Medical Center (Interni Odjel Medicinskog Centra), Sisak

"Mass Poisoning with Methanol"

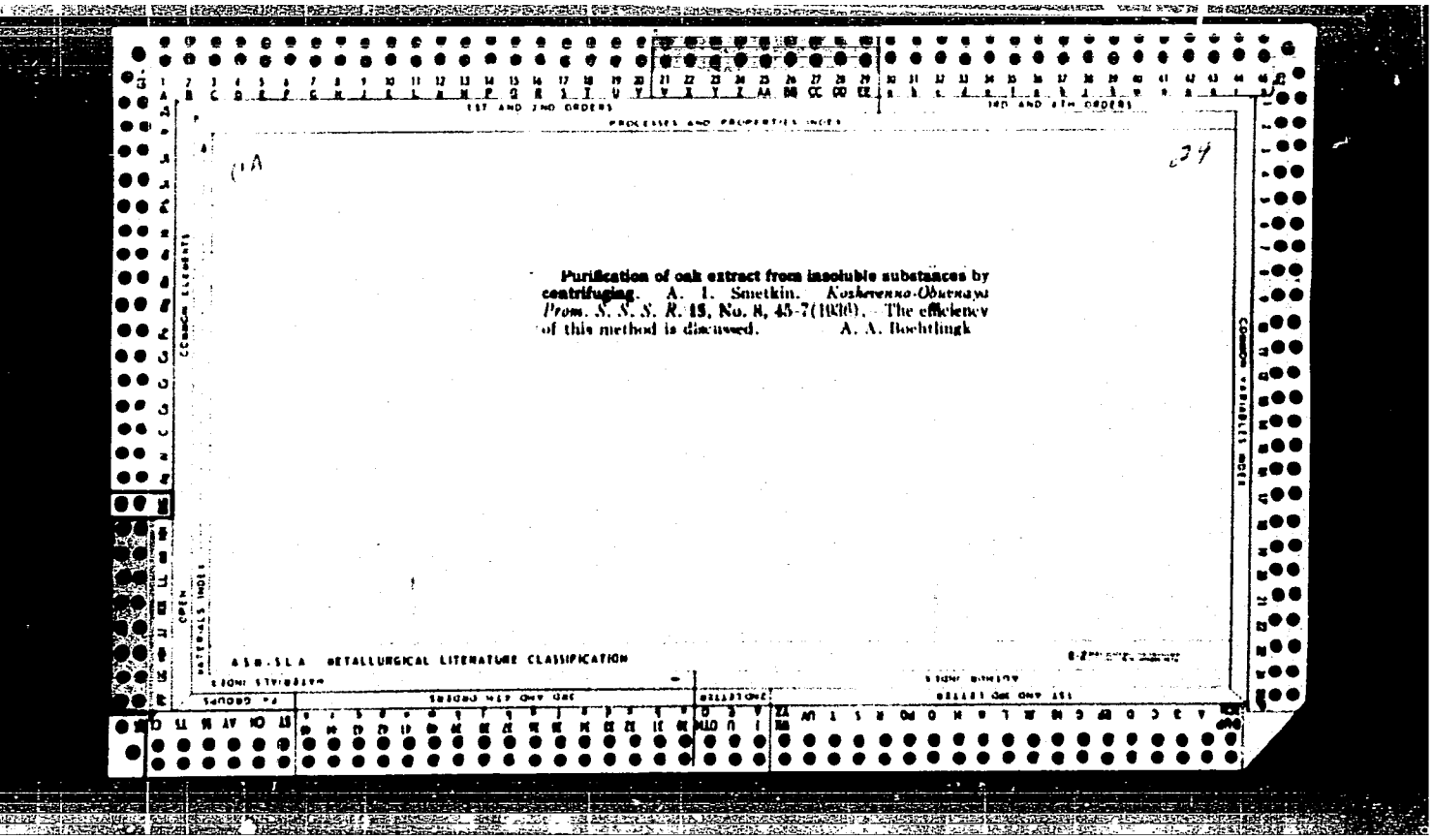
Zagreb, Lijecnicki Vjesnik, Vol 88, No 6, June 1966; pp 607-617

Abstract: [English summary modified] Of 35 persons who drank inadequately labeled methanol ("alcohol") obtained from a railroad tank, 4 died, 1 became blind, 2 partly blind and 1 had slight eye damage. Mass emergency alert probably prevented an even wider catastrophe. Table, 3 Yugoslav (one unpublished) and 15 Western references. Manuscript received 23 May 66.

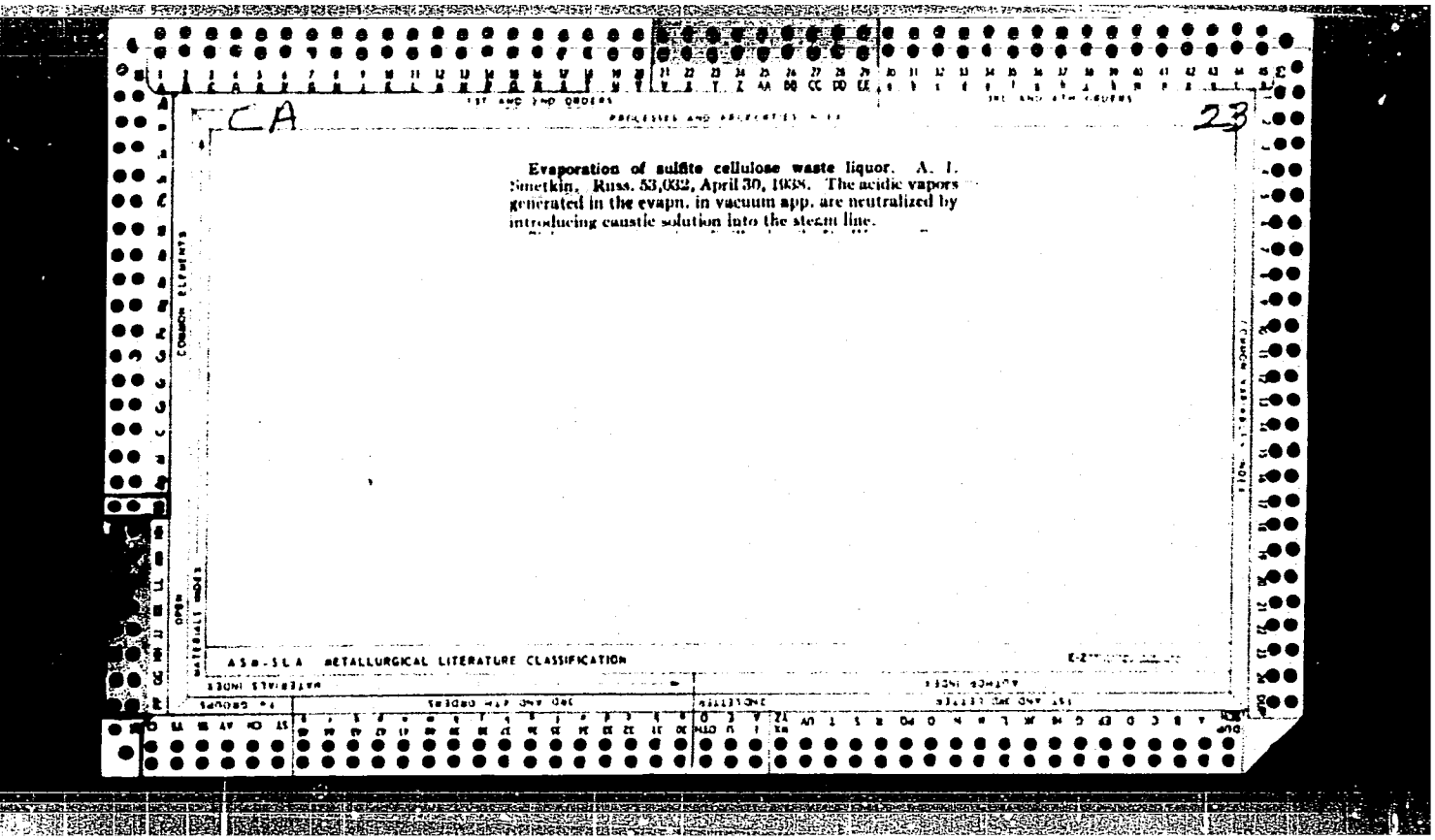
1/1



Tanning of shaft leather with Caucasian tanning materials. A. Smirkin and A. Pissarenko. *Vestnik Kozhevennoi Prom. Torgov.* **1929**, 57-8; *Chem. Zentr.* **1930**, II, 3052; cf. *C. A.* **23**, 1391.—Caucasian sumach leaves (*Rhus cotinus* L.) as tanning material cause strong fermentation and acidity of the liquors and overtanning of the grain, and produce flat leather. Expts. were carried out to obtain sumach exts. which would yield better tanning liquors. Tanning expts. are described with sumach alone, with sumach and oakwood ext. and with willow bark. The best results were obtained with liquors contg. sumach 60, willow 25 and oakwood 15%. Alfred Burger



Purification of oak extract from insoluble substances by centrifuging. A. I. Smetkin. *Kozhevenno-Obuvnaya Prom. S. S. S. R.* **15**, No. 8, 45-7(1936). The efficiency of this method is discussed. A. A. Boehtlingk

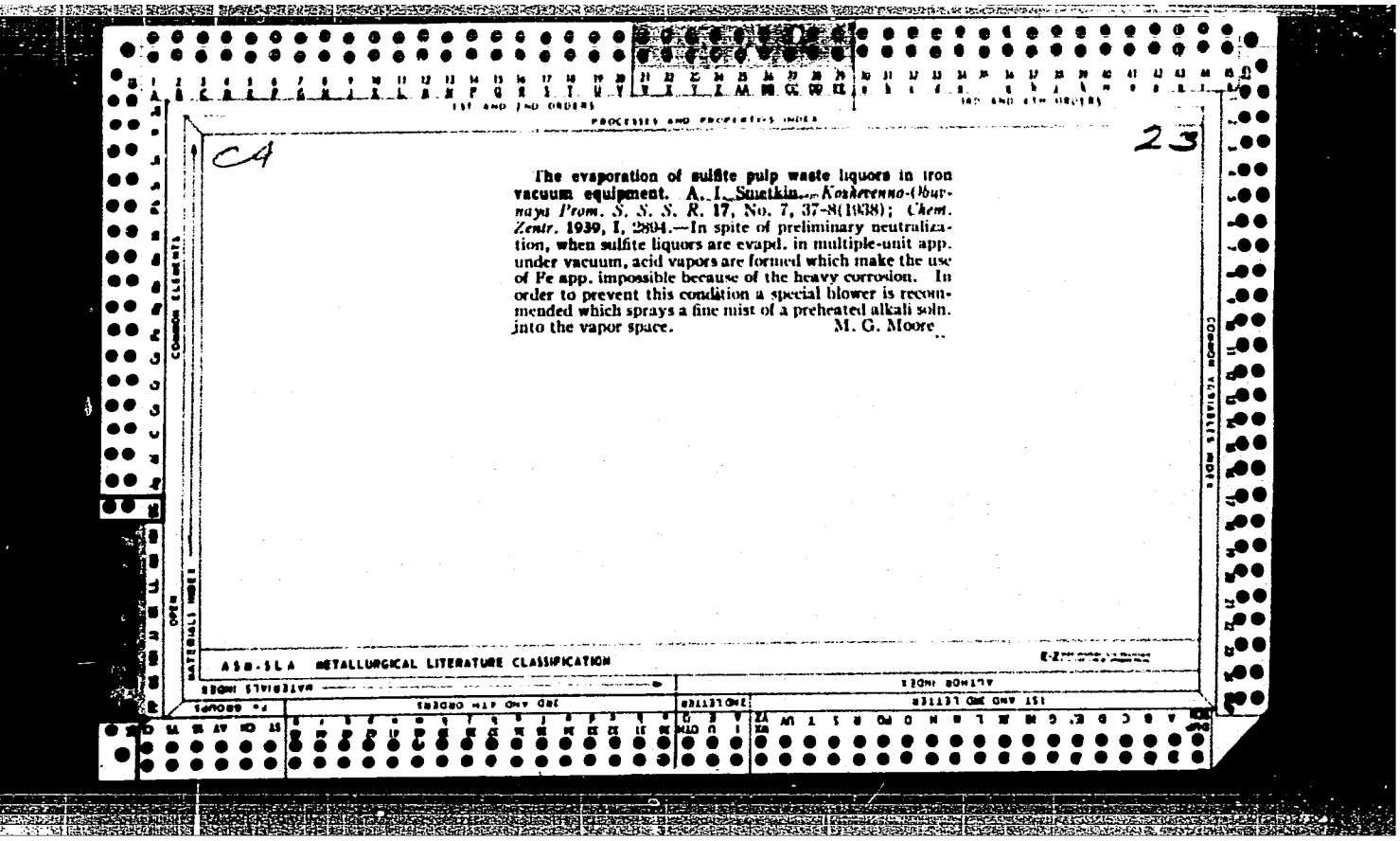


CA

23

Evaporation of sulfite cellulose waste liquor. A. I. Smetkin. Russ. 53,032, April 30, 1938. The acidic vapors generated in the evapn. in vacuum app. are neutralized by introducing caustic solution into the steam line.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

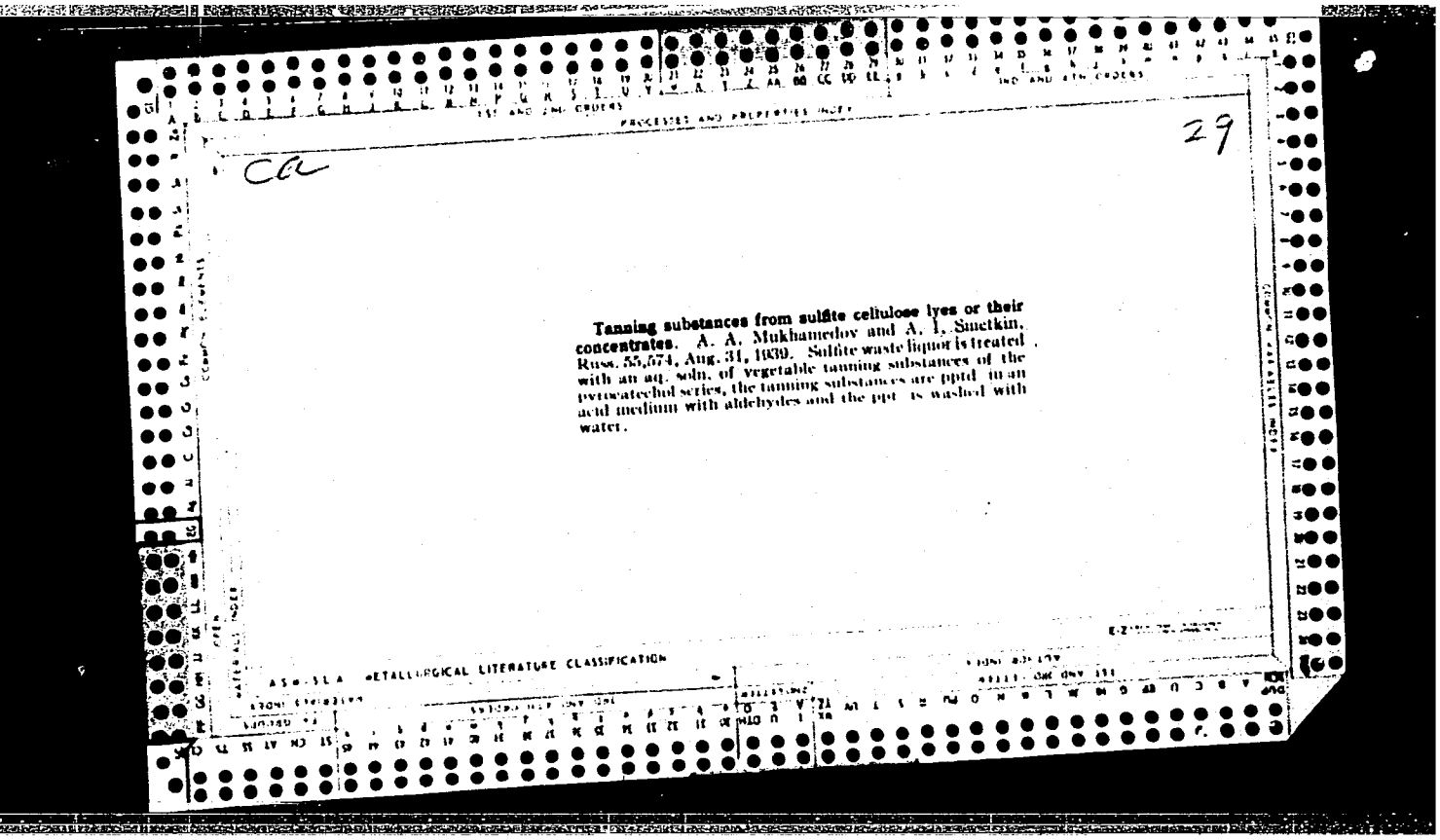


C4

23

The evaporation of sulfite pulp waste liquors in iron vacuum equipment. A. I. Smetkin. *Koksterenno-Khurnaya Prom. S. S. S. R.* **17**, No. 7, 37-8(1938); *Chem. Zentr.* **1939**, I, 2804.—In spite of preliminary neutralization, when sulfite liquors are evapd. in multiple-unit app. under vacuum, acid vapors are formed which make the use of Fe app. impossible because of the heavy corrosion. In order to prevent this condition a special blower is recommended which sprays a fine mist of a preheated alkali soln. into the vapor space. M. G. Moore

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



29

CA

Tanning substances from sulfite cellulose lyes or their concentrates. A. A. Mukhamedov and A. I. Sinetkin, Russ. 55,574, Aug. 31, 1939. Sulfite waste liquor is treated with an aq. soln. of vegetable tanning substances of the pyrocatechol series, the tanning substances are pptd. in an acid medium with aldehydes and the ppt. is washed with water.

METALLURGICAL LITERATURE CLASSIFICATION

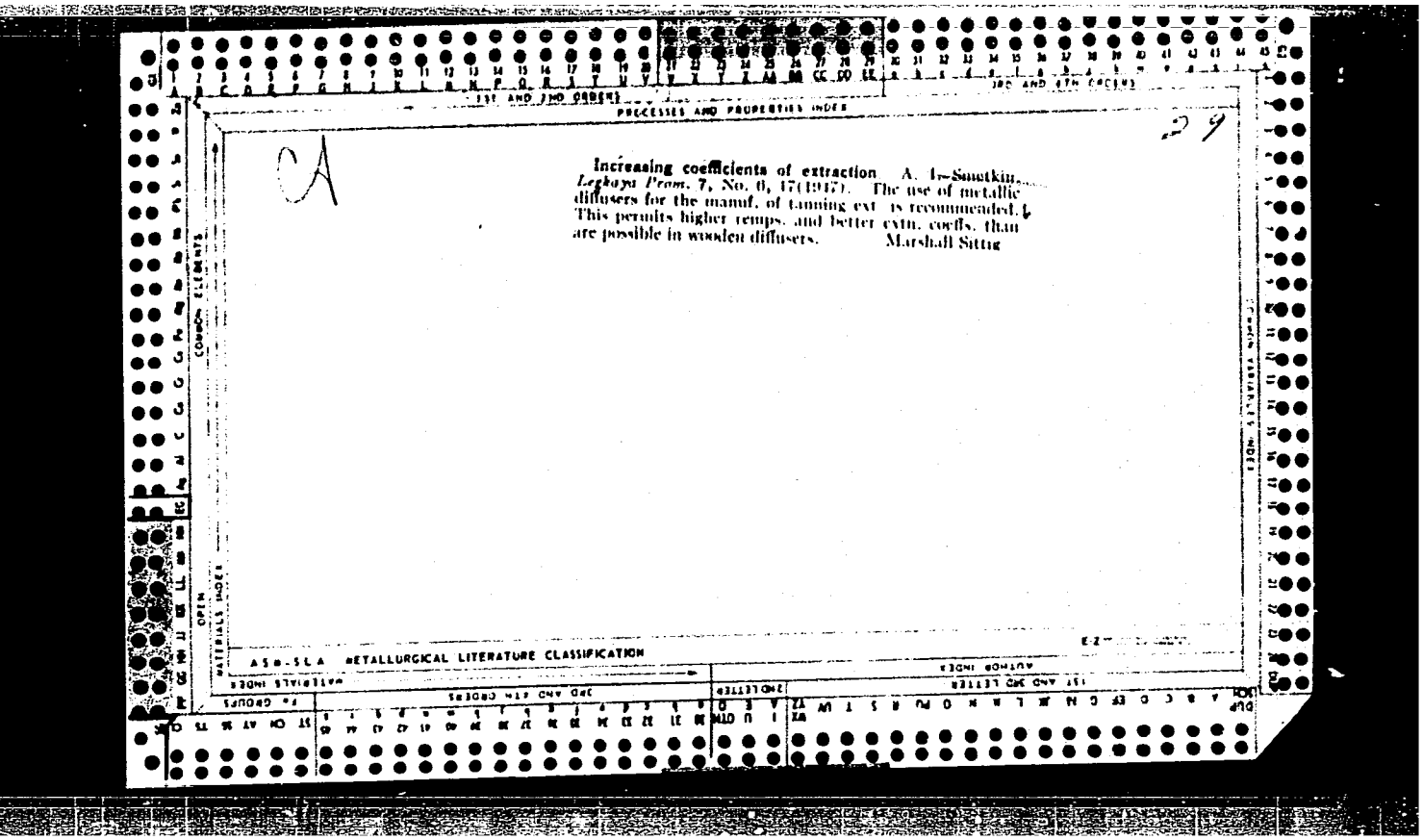
SMETKIN, A. I., T. M. VRAGOVA, and N. M. MIKHAILOV.

Proizvodstvo liteinykh kontsentratov iz sul'fitnospirtovoi bardy. Moskva, Gos. lesotekhn. izd-vo, 1947. 134 p. diagrs.

(Production of foundry concentrates from sulphite liquor.)

DLC: TS1176.V7

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

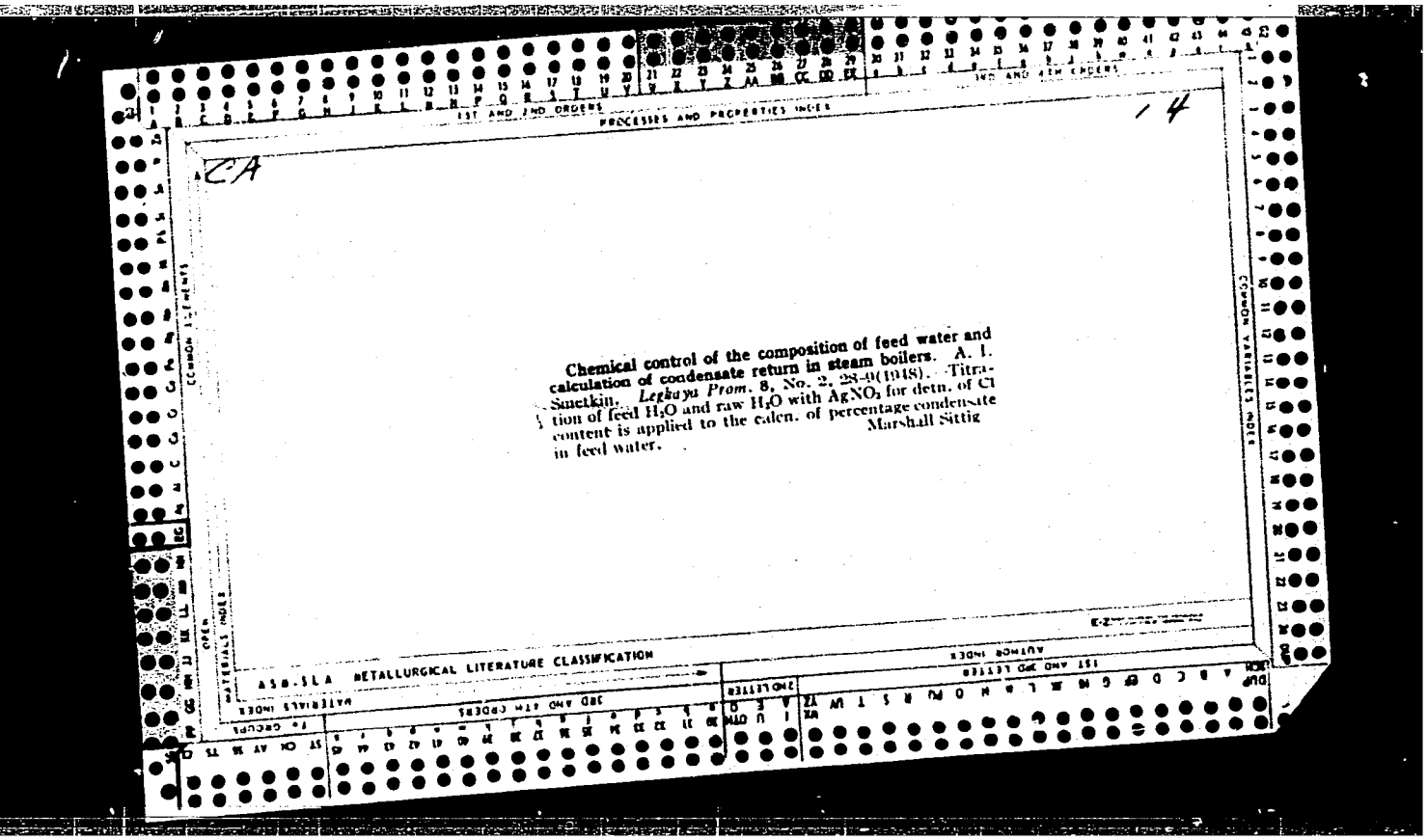


CA

Increasing coefficients of extraction A. I. Smutkin, *Leghoya Prom.* 7, No. 0, 17(1947). The use of metallic diffusers for the manuf. of tanning ext. is recommended. This permits higher temps. and better extn. coeffs. than are possible in wooden diffusers. Marshall Sittig

SMETKIN, A.I., inzhener.

Heat economy in tannin factories. Leg.prom. 7 no.9:20 Ag '47. (MLRA 6:11)
(Tannins)



CA

14

Chemical control of the composition of feed water and calculation of condensate return in steam boilers. A. I. Smetkin. *Legkaya Prom.* 8, No. 2, 28-9(1948). Titration of feed H_2O and raw H_2O with $AgNO_3$ for detn. of Cl content is applied to the calcn. of percentage condensate in feed water.

Marshall Sittig

SMETKIN, A.

SMETKIN, A., inzhener.

Role and tasks of the leather factories' laboratory. Leg.prom. 14 no.5:56 My '54. (MLRA 7:6)
(Leather research)

CA SMETKIN Yu. A.

30

Effect of the concentration, pH, and addition of tannins on the electrokinetic potential of synthetic-latex particles. S. S. Voyutskii, Yu. A. Smetkin, R. M. Panich, and K. A. Kal'yanova (Moskov. Inst. Tonkol Khim. Tekhnol. im. M. V. Lomonosova). *Doklady Akad. Nauk S.S.S.R.* 70, 1013-16(1950). By macroelectrophoresis, the electrokinetic potential ζ of an emulsion of a synthetic diene vinyl copolymer, stabilized with NH₄ oleate, with an original dry residue content of 27.8%, and pH 9.7, shows an initial very slight rise on dilg., owing to a decrease of the abs. concn. of electrolytes in the soln. On further dilu., ζ decreases, owing to desorption of the emulsifier, passes through a min., and then increases. In this range, no more emulsifier is desorbed from the surface of the globules, and the increase of ζ is due to a decrease of the concn. of electrolyte and increased ionization of adsorbed mols. of oleate. The pH decreases slowly and linearly with increasing dilu. Variation of the pH between 1 and 11 produces a max. of neg. ζ at about pH 2, a change of sign ($\zeta = 0$) at about pH 4, and a max. of pos. ζ at about pH 8.9. Whereas acidification with 0.1 *N* HCl causes instantaneous complete coagulation in concd latex, it does not coagulate a dil. 2.3% latex. The sp. cond. Λ of the dil. latex decreases rapidly with increasing pH between 1 and 2, and remains practically const. with further increasing pH. Addn. of tanning ext. in amts. up to 5·10⁻³% of the dry latex residue raises ζ; further amts. do not change ζ appreciably. The pH decreases, and Λ increases, with increasing amt. of the tannin. N. F.

KHOROSHAYA, Ye.S.; KOVRIGINA, G.I.; SMETKIN, Yu.A.; KUZNETSOV, Yu.I.

Rapid electrometric method of determining potassium chloride content in artificial leather. Leg.prom. 16 no.9:30-32 S '56. (MLRA 9:11)
(Leather, Artificial--Testing)
(Potassium chloride)
(Electrochemical analysis)

SEMENOVICH, V.G.; MARKUSHKIN, V.G.; ZAYONCHKOVSKIY, A.D.; ZOLOTOV, V.I.; BERNSHTEYN, M.Ch.; YABKO, Ya.M.; SMETKIN, Yu.A.

The KhOM-2 machine for the manufacture of continuous disoriented fiber bases. Kozh.-obuv.prom. 4 no.11:20-24 N '62. (MIRA 15:11)

(Leather, Artificial) (Nonwoven materials)

FIDDER, M. L;SHETLEVA, A. G;TETEROVSKAYA, T. O.

Hibernal reproductive of Musca demestica L. in living quarters in cities. Gig. sanit., Moskva no.4:52 Apr. 1952. (CLML 22:2)

1. Of Moscow Municipal Disinfection Station.

STEPANOV, I.R.; SMETLEVA, A.G.; TETEROVSKAYA, T.O.

Use of hexachlorane in eradication of fly larvae in cesspools of latrines. Gig. sanit., Moskva no.7:56-57 July 1952. (CLML 23:2)

[illegible], ... I.

Flies as carriers of infection

Migration of blue meat flies (Calliphora urslensis V.Ill.) Ukr. i sev. No. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

SMETLEVA, A.G.

AID P - 2484

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 13/19

Authors : Sukhova, M. N., Pastukhov, Ya. F., Gladkikh, A. N., Smetleva, A. G.

Title : Organization of outdoor cesspools to prevent the procreation of flies

Periodical : Gig. i san., 7, 48-50, Jl 1955

Abstract : Discusses the efficient arrangement of cesspools in localities without sewage system and the preventive measures against blue flies (Calliphora uralensis Vill.) which develop in moderate climatic zones. Diagrs., 5 refs. (1937-1953)

Institution: Institute of General and Municipal Hygiene Acad. of Med. Sci., USSR; Medical and Epidemiological Station, Kalinin District, Moscow; 3rd Disinfection Division, Moscow City Disinfection Station; Central Control and Research Laboratory, Moscow City Disinfection Station.

Submitted : Aug. 3, 1954

SMETNEV, A.S.

Treatment of hypertension with hypnotic sleep. Terap.arkh. 28 no.8: 18-26 '56. (MLRA 10:2)

1.Iz fakul'tetskoy terapevticheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR prof. V.N.Vinogradov) I Moskovskogo ordena Lenina Meditsinskogo instituta imeni I.M.Sechenova.

(HYPERTENSION, ther.
hypnotic sleep)
(HYPNOSIS, ther. use
hypertension)

SMETNEV, A.S.

SIVKOV, I.I.; POPOV, V.G.; NEPORENT, M.I.; SMETNEV, A.S.; MURAV'YEV, M.V.; YASTREBTSOVA, N.L.

Cardiac catheterization in acquired heart diseases. Terap.arkh. 29 no.3:37-51 Mr '57. (MIRA 10:8)

1. Iz fakul'tetskoy terapevticheskoy kliniki (sir. - deystvitel'nyy chlen AMN SSSR prof. V.N.Vinogradov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova
(CATHETERIZATION, CARDIAC,
in acquired heart dis. (Rus))

SMETIAN

Gas content of the blood in the cardiac cavities in mitral lessions. Terap.arkh. 29 no.3:59-65 Mr '57. (MLRA 10:8)

1. Iz fakul'tetskoy terapevticheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR prof. V.N.Vinogradov) I Moskovskogo ordena Lenina Meditsinskogo instituta imeni I.M.Sechenova

(MITRAL VALVE, diseases,
cardiac catheterization, determ. of blood oxygen in heart cavities (Rus))
(CATHETERIZATION, CARDIAC,
in mitral dis.,determ. of blood oxygen in heart cavities (Rus))
(OXYGEN, in blood,
in heart cavities in mitral dis., determ. by catheterization (Rus))

SMETNEV, A.S.

T

Country : USSR
Category: Human and Animal Physiology. Circulation. Heart

Abs Jour: RZhBiol., No 19, 1958, 88797

Author : Smetnev, A.S.
Inst :
Title : The Minute-Volume of the Heart in Mitral Defects as Determined by the Formula of Fick.

Orig Pub: Terapevt. arkhiv, 1957, 29, No 9, 33-38

Abstract: In 12 patients with mitral heart anomalies and 58 patients with mitral defects, the true mixed venous blood was taken by catheterization from the pulmonary artery and the right ventricle and auricle. Simultaneously, blood was taken without

Card : 1/2

SMETNEV, A.S., Cand Med Sci -- (diss) "Gaseous composition of the blood and minute volume of the heart in patients with mitral defects." Mos 1958, 16 pp (First Mos Order of Lenin Med Inst im I.M. Sechenov) 200 copies (KL, 51-58, 102)

SMETNEV, A.S.; SIVKOV, I.I.

Gaseous composition of the blood obtained from the coronary sinus during cardiac catheterization in patients with mitral stenosis. Terap.arkh. 31 no.12:63-71 D '59. (MIRA 13:4)

1. Iz kafedry fakul'tetskoy terapii (zav. - deystvitel'nyy chlen AMN SSSR prof. V.N. Vinogradov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(MITRAL STENOSIS diag.)
(HEART CATHETERIZATION)

SMETNEV, A.S.; SIVKOV, I.I.

Significance of the gas composition of the blood and minute volume of the heart in the diagnosis of mitral stenosis. Vrach. delo. no. 1:50-55 '61. (MIRA 14:4)

1. Fakul'tetskaya terapevticheskaya klinika Pervogo moskovskogo meditsinskogo instituta imeni I.M. Sechenova.
(BLOOD, GASES IN) (MITRAL VALVE—DISEASES)

SMETNEV, A. S.; BELYAKOVA, T. I.

Wolff-Parkinson-White clinical electrocardiographic syndrome in a patient with myocardial infarction. Terap. arkh. no.9:110-112 '61. (MIRA 15:2)

1. Iz fakul'tetskoy terapevticheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR V. N. Vinogradov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I. M. Sechenova.

(HEART—INFARCTION) (WOLFF-PARKINSON-WHITE SYNDROME)

SIVKOV, I.I.; SMETNEV, A.S.; YASTREBTSOVA, N.L.

Some problems in the evaluation of blood flow in the lesser circulation in patients with mitral defects. Terap.arkh. 33 no.1:60-67 '61. (MIRA 14:3)

1. Iz fakul'tetskoy terapevticheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR prof. V.N. Vinogradov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(MITRAL VALVE --DISEASES) (BLOOD--CIRCULATION)

SHVEDOV, A. F.; POPOV, V. G., dotsent; SMETNEV, A. S.; BELKIN, V. S.

Problems in the organization of specialized medical care for patients with myocardial infarct complicated by collapse under conditions of first aid in Moscow. Terap. arkh. 33 no.5:108-112 My '61.
(MIRA 14:12)

1. Iz fakul'tetskoy terapevticheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR prof. V. N. Vinogradov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I. M. Sechenova i stantsii skoroy pomoshchi Moskvy (nach. A. F. Shvedov)

(HEART--INFARCTION) (SHOCK)
(MOSCOW--FIRST AID IN ILLNESS AND INJURY)

VINOGRADOV, V.N.; POPOV, V.G.; SMETNEV, A.S.

Clinical picture of collapse in myocardial infarction. Terap. arkh. 33 no.10:3-11 '61. (MIRA 15:1)

1. Iz fakul'tetskoy terapevticheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR prof. V.N. Vinogradov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(HEART—INFACTION) (SHOCK)

VINOGRADOV, V.N., prof.; POPOV, V.G., dotsent; SMETNEV, A.S., kand.med.nauk

Treatment of collapse in myocardial infarct. Terap.arkh. 34 no.3:11-19 '62. (MIRA 15:3)

1. Iz kafedry fakul'tetskoy terapii (zav. - deystvitel'nyy chlen AMN SSSR prof. V.N. Vinogradov) I Moskovskogo meditsinskogo instituta imeni I.M. Sechenova.
(HEART—INFARCTION) (SHOCK)

VINOGRADOV, V.N.; POPOV, V.G., SMETNEV, A.S.

Some problems in the pathogenesis, clinical aspects and treatment of collapses in myocardial infarct. Kardiologiia 3 no.4:17-25 Jl-Ag'63 (MIRA 17:3)

1. Iz fakul'tetskoy terapevticheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

SHAPIRO, L.B., POPOV, V.G., dotsent; ROMADIN, N.A.; SMETNEV, A.S.; BELKIN, V.S.

Treatment and hospitalization of patients with myocardial infarct complicated by collapse. Sov.med. 26 no.1:18-21 Ja '63. (MIRA 16:4)

1. Iz fakul'tetskoy terapevticheskoy kliniki (dir. - deystvitel'nyy chlen AMN SSSR prof. V.N.Vinogradov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova i Stantsii skoroy meditsinskoy pomoshchi Moskvy (nach. L.B.Shapiro).

(HEART--INFARCTION) (SHOCK)

SMETNEV, A.S.; MAKAROVA, N.A.; POLIKARPOVA, E.G.

Cases of hemorrhagic complications following the use of anticoagulants in myocardial infarct. Terap. arkh. 35 no.5:39-43 My'63 (MIRA 16:12)

1. Iz kafedry fakul'tetskoy terapii I Moskovskogo ordena Lenina meditsinskogo instituta (dir. - deystvitel'nyy chlen AMN SSSR prof. V.N.Vinogradov).

SMETNEV, N.N., inzhener.

Investigating power losses in caterpillar drive. Nauch.trudy MAMI no.6:55-60 '56. (MLRA 10:2)
(Caterpillar tractors--Testing)

SMIRNOV, N.N., Cand Tec Sci -- (diss) " Study of the caterpillar engine ~~pro-~~ peller of an agricultural tractor." Mos, 1958. 14 pp (Min of Higher Education USSR. Mos Automechan Inst), 120 copies (KL,24-58,120)

SMETNEV, N.N., inzh.; KHVATKOV, A.N.

Studying the starting of diesel engines abroad. Vest.mash. 38 no.9:77-80 S '58. (MIRA 11:10)
(Diesel engine--Starting)

SMETNEV, N.N., kand.tekhn.nauk

Easy start of compression-ignition engines of foreign automobiles at low temperatures. Avt.prom. no.9:44-46 S '60. (MIRA 13:9)
(Automobiles--Cold weather operation)

MOCHALOV, V.A.: MATYUSHCHENKO, D.D.; KRIVITSKIY, A.A.; GLEZER, G.N.; OPARIN, I.M.; KHEYMAN, E.L.; SMETNEV, N.N.; EPSHTEYN, A.L.; GUSEV, B.Ya.; LEYKIN, L.P.; MARCHENKO, G.M.; FISHKOV, V.G.; SAPROVSKIY, S.V.; LYAKHOVSKIY, I.I.; SMELYAKOV, Ye.P.; VAYNTRAUB, D.A.; BUDYLIN, M.M.; NOTKIN, Ye.M.; KUR, G.Ye.; ARONSHTEYN, N.A.; SUKHAREV, V.I.; VINOGRADOV, K.N.; BOBROVSKIY, N.S.

Innovators' certificates and patents. Mashinostroenie no. 2: 103-109 Mr-Ap '64. (MIRA 17:5)

L 24776-65

ACCESSION NR: AP5001140 S/0113/64/000/007/0005/0007

AUTHOR: Smetnev, N.N. (Candidate of technical sciences)

TITLE: The lowest possible temperature for starting automobile engines

SOURCE: Avtomobil'naya promyshlennost', no. 7, 1964, 5-7

TOPIC TAGS: cold weather starting, engine starting, internal combustion engine, automobile engine

ABSTRACT: The proper determination of the minimum temperature for starting engines is very important since the power of the starter system is chosen on this basis. There are many different opinions on the problem of minimum starting temperatures. In 1962, the NIIAvtopriborov sent questionnaires to several leading foreign firms. The answers on the question of minimum starting temperatures varied from -29 to -17.7C. The German scientists Riksman and Konrad believe that the minimum starting temperature depends on the cetane number and the pressure at the end of the compression stroke, while Derry and Evans consider that it depends on the volatility of the fuel. The present author found that two considerations determine the minimum starting temperature: climatic conditions, and engine type and design. An equation evolved by A.N. Kivatkov for gasoline engines shows

Card 1/2

L 24776-65
ACCESSION NR: AP5001140

that the resistance of an engine depends on the dimensions of the friction pairs, friction surfaces of the piston and bearings, crank radius, oil viscosity and engine speed. The equation for resistance of diesel engines (Ya. A. Mendelevich) includes cylinder bore and an index depending on the engine cranking speed. Using both of these equations, an equation for oil viscosity is evolved. As mentioned above, the second consideration for minimum starting temperature may be determined by tests using the evolved equations. This temperature determines, finally, the minimum starting temperature. Orig. art. has: 6 equations and 1 table.

ASSOCIATION: NIIAvtopriborov

SUBMITTED: 00 ENCL: 00 SUB CODE: PR

NO REF SOV: 000 OTHER: 001

Card 2/2

L 58570-65 EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EWP(i)/EWP(f)/EPR/EPA(w)-2/T-2/
EPA(bb)-2/EWP(b) Pab-10/Pr-4/Ps-4/Pt-7 WW/WH

ACCESSION NR: AP5017868 UR/0286/65/000/011/0116/0116
621.43.04

AUTHOR: Mishkind, S. I.; Arustamov, L. Kh.; Smetnev, N. N.; Koposova, Z. L.

TITLE: A sparkplug for an internal combustion engine. Class 46, No. 171694

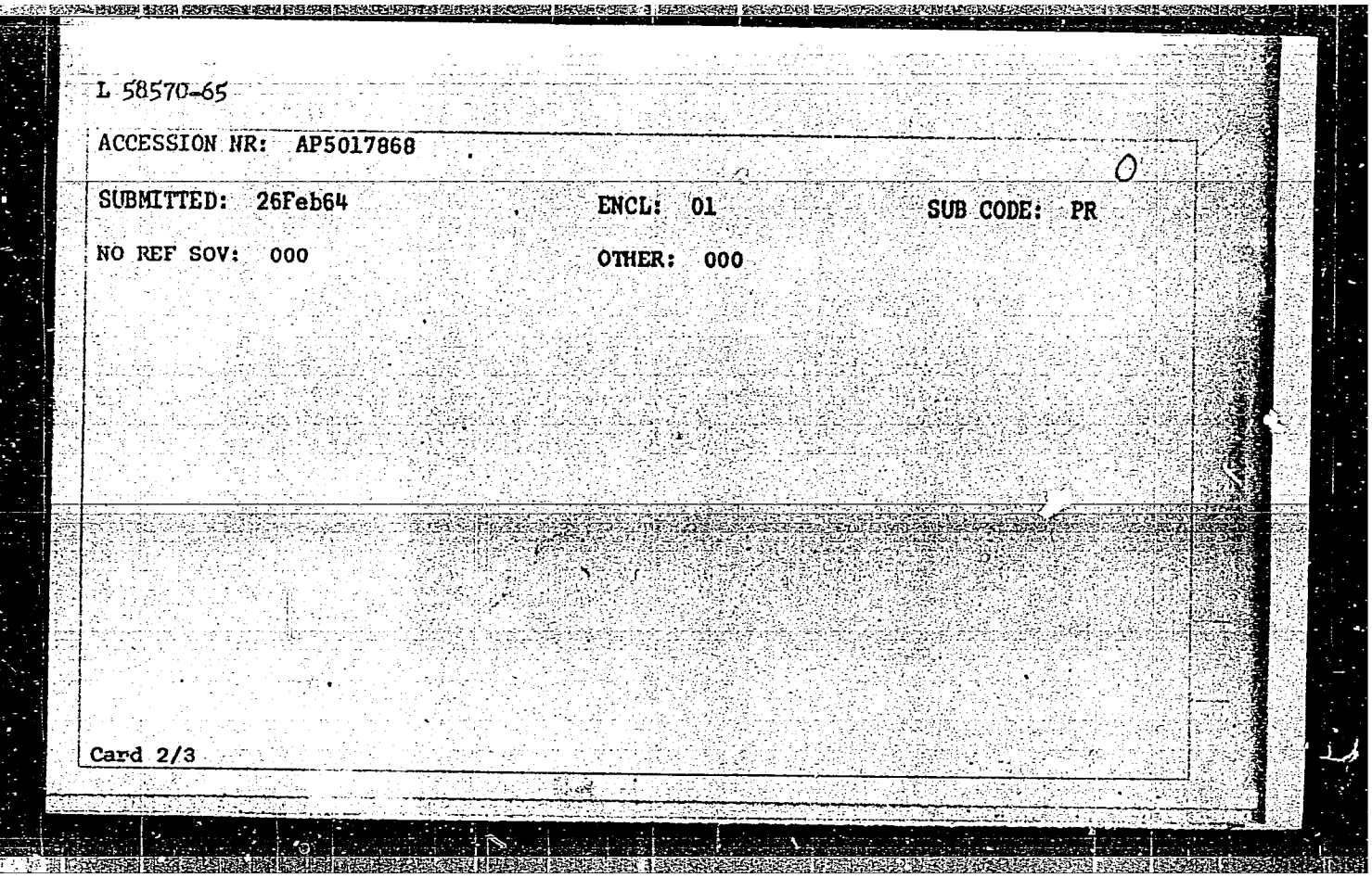
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 116

TOPIC TAGS: internal combustion engine, sparkplug, ignition system

ABSTRACT: This Author's Certificate introduces a sparkplug for an internal combustion engine. The device contains a housing, insulator and heating element. The useful life of the sparkplug is increased by coating the heating element with a protective film made of refractory oxides, borides or silicides.

ASSOCIATION: Nauchno-issledovatel'skiy i eksperimental'nyy institut avtomobil'nogo elektrooborudovaniya, karbyuratorov i priborov (Scientific Research and Experimental Institute of Automotive Electrical Equipment, Carburators and Instruments)

Card 1/3



L 58570-65

ACCESSION NR: AP5017868

SUBMITTED: 26Feb64 ENCL: 01 SUB CODE: PR

NO REF SOV: 000 OTHER: 000

Card 2/3

L 58570-65

ACCESSION NR: AP5017868

ENCLOSURE: 01

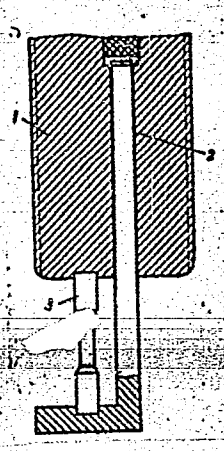


Fig. 1--housing; 2--insulator; 3--heating element

Card 3/3

SMETNEV, S. D.

Cand Tec Sci, Diss -- "Investigation of the technology and perfecting the mechanization for introduction of organic fertilizers". Moscow, 1961. 21 pp, 19 cm (Min of Agr RSFSR. All-Union Agr Inst of Correspondence Educ "VSKHIZO"), 120 copies, Not for sale (KL, No 9, 1961, p 184, No 24368). /61-54114/

ACC NR: AP6035746 (A) SOURCE CODE: UR/0413/66/000/019/0109/0109

INVENTORS: Balandin, M. P.; Volosatov, A. K.; Antonenko, I. Ya.; Bushtets, P. P.; Zhirnov, A. I.; Ivanov, Yu. V.; Kruglyakov, M. L.; Mordukhovich, A. I.; Popov, F. K.; Smetnev, S. D.; Fanfaroni, F. I.; Shcherbakov, A. M.; Krivoshey, M. N.

ORG: none

TITLE: A device for broadcasting pesticides and meliorating substances. Class 45, No. 166787 [announced by All-Union Scientific Research Institute for Mechanization of Agriculture (Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii sel'skogo khozyaystva)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 109

TOPIC TAGS: agricultural machinery, agricultural engineering, broadcasting operation, pesticide, fertilizer

ABSTRACT: This Author Certificate presents a device for broadcasting pesticides and meliorating substances. The device contains a tank divided into sections, broadcasting mechanisms, receiving chambers of the fertilizer duct, and a driving mechanism. To provide for a uniform broadcasting of a material, the broadcasting mechanisms are made in the shape of cones mounted on a common shaft carrying a spiral with the opposite direction of coil loops. Every revolving cone may be spring loaded and may

UDC: 631.333.9

Card 1/2

1. SMETNEV, S. I., PROF.

2. USSR (600)

4. Eggs

7. Exhibit of eggs for incubation. Ptitsevodstvo no. 3, 1952.

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

1. SMETNEV, S. I., PROF.

2. USSR (600)

4. Earthworms

7. Earthworms as chick feed. Ptitsevodstvo no. 5, 1952.

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

1. [illegible], S. I., Prof.

2. USSR (600)

4. Poultry - Feeding and Feeding Stuffs

7. Standardizing protein in rations for hens. Ptitsevodstvo no. 10, 1952.

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

SHAPKIN, S. I.

Ptitsevodstvo (Poultry Raising) 2., perer. izd. Moskva, Sel'khozgiz, 1954.
383 p. illus., diagrs., tables (Uchebniki I Uchebnyye Posobiya Dlya Vysshikh Sel'skokhozyaystvennykh Uchebnykh Zavedeniy)

737.5
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1954

SmeTnev, S.I

USSR/Agriculture - Fowl breeding

Card 1/1 Pub. 77 - 5/23

Authors : Smetnev, S. I., Dr. of Agri. Sci.

Title : Highly productive breeds of fowls

Periodical : Nauka i Zhizn' 21/10, 12-13 and 16, Oct 1954

Abstract : Fowl raising is found to be a highly productive industry returning 20 to 25 kg of meat and 5 to 6 kg of eggs for each kilogram of mature fowls. Methods of crossing fowls to increase productiveness are discussed with figures of results obtained. Illustrations.

Institution : ...

Submitted : ...

SMETNEV, S.I.

[Poultry raising] Ptitsevodstvo. 4. perer. i dop. izd. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1955. 463 p. (MIRA 11:10)
(Poultry)

SMETNEV, S.I., redaktor

[Work on improving Russian breeds of domestic animals] Raboty po sovershenstvovaniiu i vyvedeniiu otechestvennykh porod sel'skokhoziaistvennykh zhivotnykh. Moskva, 1956. 153 p. (MLRA 10:5)

(Stock and stockbreeding)

SMETNEV, S.I., doktor sel'skokhozyaystvennykh nauk, professor; TARABRINA, L.G., kandidat sel'skokhozyaystvennykh nauk.

Characteristics of the morphological structure and chemical composition of the eggs of young hens of different productivity rates. Izv.TSJhA no. 3:211-214 '56. (MLRA 10:3)

(Eggs)

SMETNEV, Sergey Ivanovich; prof.; NECHAYEVA, Ye.G., red.; GUREVICH, M.M., tekhn.red.

[Poultry breeding] Ptitsevodstvo. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1957. 253 p. (MIRA 11:2)

1. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Smetnev)
(Poultry)

SMETNEV, S.I., prof., doktor sel'skokhoz.nauk; BOGDANOV, M.N., zootekhnik; GOFMAN, M.B., zootekhnik; GRIGOR'YEV, G.K., zootekhnik; ZHIDKIKH, Z.A., kand.sel'skokhoz.nauk; PENIONZHKEVICH, E.E., doktor biolog. nauk, prof.; PREVO, A.A., kand.biolog.nauk; TRET'YAKOV, N.P., doktor sel'skokhoz.nauk, prof.; USPENSKIY, A.A., kand.sel'skokhoz.nauk; USHAKOV, A.A., kand.veterin.nauk; SHAPOVALOV, Ya.Ya., kand.sel'skokhoz.nauk; YAGODIN, P.Ye., zootekhnik; YATSYNIN, N.N., zootekhnik; FEDOROVSKIY, N.P., kand.biol.nauk; SYCHIK, Ye.V., red.; PAVLOVA, M.M., tekhred.

[Poultry raising; a manual for farm managers] Ptitsevodstvo; rukovodstvo dlia zaveduiushchego fermoi. Izd.5, perer.i dop. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957. 495 p. (Bibliotechka po ptitsevodstvu, no.1) (MIRA 12:4)

1. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Smetnev).
(Poultry)

USSR/Farm Animals. Domesticated Fowl. Q

Abs Jour: Ref Zhur-Biol., No 20, 1958, 92657.

Author : Smetnev, S.I., Ozerov, A.V., Shapovalov, Ya. Ya., Puchkov, Ya. A., Lukyanova, V.D., Voskresenskiy, V.A.
Inst : Moscow Agricultural Academy im. K.A. Timiryazev.
Title : Raising Chicks on Deep Litter.

Orig Pub: Ptitsevodstvo, 1957, No 126-131.

Abstract: The experiment was made at the experimental base of the Moscow Agricultural Academy im. K.A. Timiryazev. 850 day old chicks of the Russian White, Moskovskiy, kuchinskiy, Jubilee, Livenskiy varieties were placed in individual sections of the coop with 12-14 chicks per square meter of floor. Dry slaked lime was poured onto the floor (1 kg per 1 m^2

Card : 1/2

USSR/Farm Animals. Poultry Q-4

Abs Jour : Ref Zhur - Biol., No 19, 1958, No 88166

spring display better-developed internal organs, higher viability and sturdier constitution. Indication of the difficulties involved in creating breeding lines, and of the ways of surmounting these difficulties.

Card : 2/2

SMETNEV, S. I. (Prof.)
Lenin All-Union Academy fo Agricultural Sciences, Moscow

"Scientific Research in Intensive Poultry Industry in the USSR."

paper presented at 11th. Cong. of World Poultry Assoc., Mexico City, 21-28 Sep 58.

SMETNEV, S.I.

[Poultryman's handbook] Spravochnik ptitsevoda. Moskva, Gos. izd-vo selkhoz.lit-ry, 1958. 222 p. (MIRA 12:3)
(Poultry)

SMETNEV, S. I.

COUNTRY :
CATEGORY : Farm Animals.
Poultry.

ABS. JOUR. : RZhBiol., No. 6, 1959, No. 25930

AUTHOR : ~~Smetnyev, S. I.~~; Ozerov, A. V.; Shapovalov,*

INST. :

TITLE : The Raising of Chicks of Native Breeds on Thick Bedding and Dry Fodder.

ORIG. PUB. : Ptitsevodstvo, 1958, No 2, 10-16

ABSTRACT : The results of experiments are presented which are favorable both from the point of view of animal breeding and economics. Also, some factual and critical remarks are given pertaining to the work being done at our IPS and in the field of breeding water birds. -- V. M. Borovskiy

Card: 1/1

*Ya. Ya.; Belov, L. M.; Voskresenskiy, B. A.

SMETNEV, S.I., prof.

Eleventh International Congress on Poultry Breeding in Mexico City. Ptitsevodstvo 8 no.11:5-7 N '58. (MIRA 11:11)

1. Deystvitel'nyy chlen Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. Lenina.
(Mexico (City)--Poultry breeding--Congresses)

LOBANOV, P.P., BREZHNEV, D.D., ROSTOVTSEV, N.F., POPOV, I.S., NIKOLAYEV, A.I., SMETNEV, S.I., BURLAKOV, N.M., ARZUMANYAN, Ye.A., BARYSHNIKOV, P.A., BELYAYEV, N.M., BLOMKVIST, M.S., BORISENKO, Ye.Ya., BURDELEV, T.P., BYCHKOV, N.P., VSYAKIKH, A.S., DAVIDOV, R.B., KUDRYAVTSEV, P.N., KUSHNER, Kh.F., LEVANTIN, D.L., NOVIKOV, Ye.A., OZEROV, A.V., STARTSEV, D.I., SUKHANOV, N.P., SHVABE, A.K., YURMALIAT, A.P., [Jurmalietis, A.P.].

In memory of Academician Efim Fedotovich Liskun. Zhivotnovodstvo 20 no. 7:84-85 Jl '58.
(Liskun, Efim Fedotovich, 1873-1958)

MATSKEVICH, V.V., LOBANOV, P.P., CHEKMENEV, Ye.M., SKRYABIN, K.I., LOZA, G.M., POPOV, I.S., PEROV, S.S., SINYAGIN, I.I., YAKUSHKIN, I.V., NIKOLAYEV, A.I., ROSTOVTSEV, N.F., YUDIN, V.M., POPOV, N.F., RED'KIN, A.P., SMETNEV, S.I.

E.F.Liskun. Dokl. Akad. sel'khoz. 23 no. 5:48 '58. (MIRA 11:8)
(Liskun, Efim Fedotovich, 1873-1958)

SMETNEV, S.I., akademik

Intensive methods in poultry production. Izv.TSKhA no.6:143-153 '59. (MIRA 13:6)

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SMETNEV, S.I., akademik

Raising chicks for meat production. Ptitsevodstvo 9 no.6:10-13 Je '59. (MIRA 12:10)

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(Poultry)