NESTEROVA, Aleksandra Petrovna.

[Therapeutic diet in peptic ulcers of the stomach and duodenum; advice to the patient] Lechebnoe pitanie pri iazvennoi bolezni sheludka i dvenadtsatiperstnoi kishki; sobety bol'nomu. Moskva, Medgiz, 1955. 29 p. (MLRA 9:5)
(STOMACH--ULCERS)(DUODENUM--ULCERS)(DIET IN DISEASE)

FOTEYEVA, M.N.; SUL'YE, Ye.V.; TOLOKNOVA, Ye.A.; NESTEROVA, A.P.; MAYSNIKOV, A.L., professor, deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR, direktor.

Rate of blood flow in hypertension determined with radioactive sodium. Terap.arkh. 25 no.3:7-14 My-Je '53. (MLRA 6:9)

1. Institut terapii Akademii meditsinskikh nauk SSSR.
(Hypertension) (Radioactive tracers)

NESTEROVA, A. P.

Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Biological Chemistry

The effect of sleep block (prolonged medicinal sleep) on gastric secretion in patients with gastric ulcer on qualitatively different diets. A. P. Nesterova (Food Inst., Acad. Med. Sci. U.S.S.R., Moscow). *Voprosy Pitaniya* 12, No. 5, 17–23(1953).—The effect of predominantly carbohydrate diet in patients with gastric or duodenal ulcer is to increase the gastric secretion in the hunger state, with enhancement of the 1st phase and decline of 2nd phase of the secretion. With protein diet the secretion in the hunger state declines and shows repressed 1st phase and enhanced 2nd phase of secretion. Under the effect of prolonged medicinal sleep with reduction of cortical activity changes in the above picture occur. Especially with the carbohydrate diet do the reversals of the secretion trends, noted above, take place.
G. M. Kosolapoff

NESTEROVA, A.

Barley

New regionally adapted varieties of spring barley. Sel. i sem. 2., No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

PROTSENKO, A.Ye.; NESTEROVA, A.M.

Cucumber white mosaic. Trudy Inst.mikrobiol. no.4:213-219
'55. (MLRA 9:1)
(VIRUSES,
cucumber white mosaic virus)
(VEGETABLES,
cucumber white mosaic virus)

NESTEROVA, A.L.; KUDRINA, A.P.; BASHLIY, V.I.

Using resin-bonded dolomite refractories in the lining of oxygen-blown converters. Metallurg 10 no.12:22-25 D '65.
(MIRA 18:12)

1. Krivorozhskiy metallurgicheskiy zavod.

GALATOV, N.S.; NESTEROVA, A.I.; KUDRINA, A.P.; GUL'YEV, G.F.; BASHLIY, V.I.

Industrial production of dolomite refractories with a resin binder and their service in 50-ton converters. Met. i gornorud. prom. no.6:42-45 N-D '65. (MIRA 18:12)

PIROGOV, A.A.; RAKINA, V.P.; KRASS, Ya.R.; VOLKOV, N.V.; BELICHENKO, G.I.; GALATOV, N.S.; NESTEROVA, A.L.; KORKOSHKO, N.M.; YEL'TSOV, V.V.

Dolomite magnesite blocks for lining oxygen-blown converters. Ogneupory 30 no.9:4-5 '65. (MIRA 18:9)

1. Ukrainskiy nauchno-issledovatel'skiy institut ogneuporov (for Pirogov, Rakina, Krass, Volkov, Belichenko).
2. Krivorozhskiy metallurgicheskiy zavod (for Galatov, Nesterova, Korkoshko, Yel'tsov).

Ternary System--Urea and Acetates of Sodium and Potassium

77498
SOV/79-30-1-69/78

ASSOCIATION: Stalingrad Pedagogic Institute (Stalingradskiy pedagogicheskiy institut)

SUBMITTED: December 10, 1958

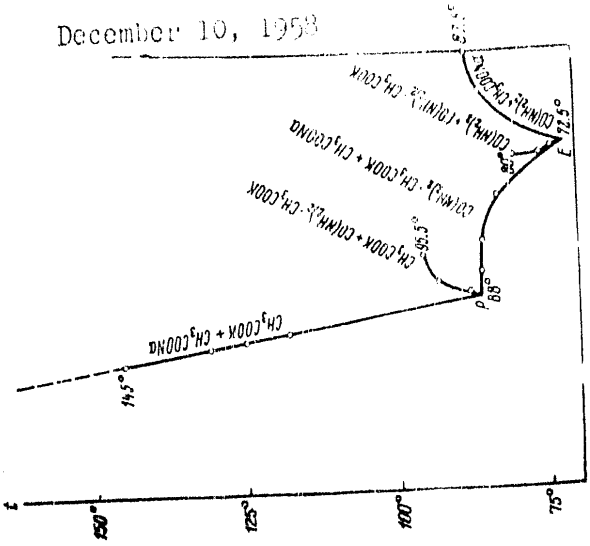


Fig. 3. Projection of the curves of cocrystallization on the side CH_3COOK-$CO(NH_2)_2$.

Card 5/5

Ternary System--Urea and Acetates of Sodium and Potassium

7746
SOV/79-30-1-63/73

Five crystallization fields can be seen on the surface of the system: two of the complexes, $CO(NH_2)_2 \cdot CH_3COOK$ and $2CH_3COOK \cdot CH_3COONa$ and three of the single components. Figure 3 shows the projection of the conjugate crystallization curves on the side CH_3COOK-$CO(NH_2)_2$.

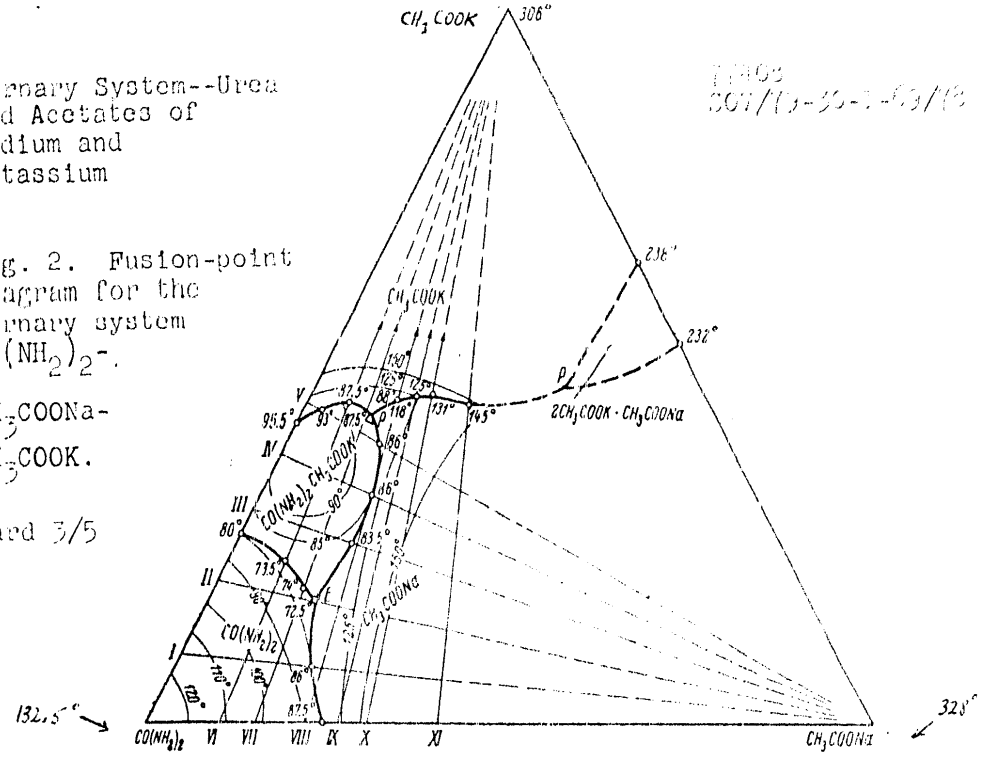
There are three triple points in the system: (1) eutectic point E (72.5°, 17% CH_3COOK, 15% CH_3COONa, 68% $CO(NH_2)_2$); (2) transition point P (88°, 43% CH_3COOK, 9% CH_3COONa, 48% $CO(NH_2)_2$); and (3) the point R, at which the compound $2CH_3COOK \cdot CH_3COONa$ is wedging out. (Abstracter's Note: Point R is not shown on the diagram of Fig. 2. We believe it to be at the apex of the triangle enclosing the $2CH_3COOK \cdot CH_3COONa$ field, and therefore at P (but not at ΔP = = transition point).) It can be seen that the incongruent compound $CO(NH_2)_2 \cdot CH_3COOK$ is being stabilized by the introduction of sodium acetate. There are 3 figures; 1 table; and 5 Soviet references.

Card 4/5

Ternary System--Urea and Acetates of Sodium and Potassium

Fig. 2. Fusion-point diagram for the ternary system $CO(NH_2)_2$-CH_3COONa-CH_3COOK.

Card 3/5



Ternary System--Urea and Acetates of Sodium and Potassium

77408
SOV/79-30-1-69/78

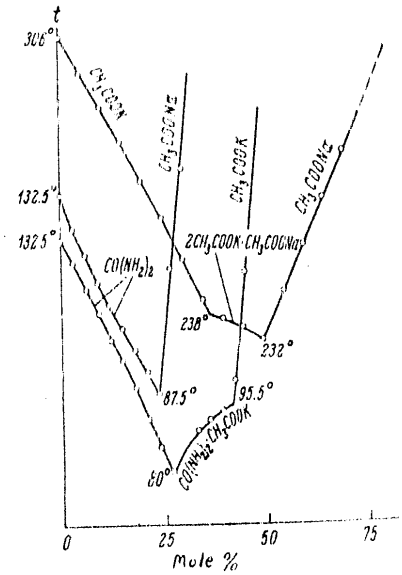


Fig. 1. The binary "side" systems.

Card 2/5

5.4110

77408
SOV/79-30-1-69/78

AUTHORS: Nesterova, A. K., Bergman, A. G.

TITLE: Ternary System--Urea and Acetates of Sodium and Potassium

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 30, Nr 1, pp 317-320 (USSR)

ABSTRACT: Interactions in the ternary system of molten urea and acetates of sodium and potassium were studied in this work. Melting points were measured to 10.5° in glass test tubes placed in a glycerol bath, using chemically pure, recrystallized compounds. Figure 1 shows temperature-composition diagrams for the three pairs of binary systems. Urea forms one complex compound with potassium acetate, $CO(NH_2)_2 \cdot CH_3COOK$, with incongruent melting point (transition point) at 95.5° and eutectic point at 80° and 27% CH_3COOK. The two acetates form a compound $2CH_3COOK \cdot CH_3COONa$ with transition point at 238° and eutectic point at 232° and 50% CH_3COONa. The three-component diagram for the system $CO(NH_2)_2$-CH_3COONa-CH_3COOK is shown in Fig. 2.

Card 1/5

NESTEROVA, A. K.

USSR/ Chemistry - Analysis methods

Card 1/1 Pub. 22 - 23/49

Authors : Bergman, A. G.; Nesterova, A. K.; and Bychkova, N. A.

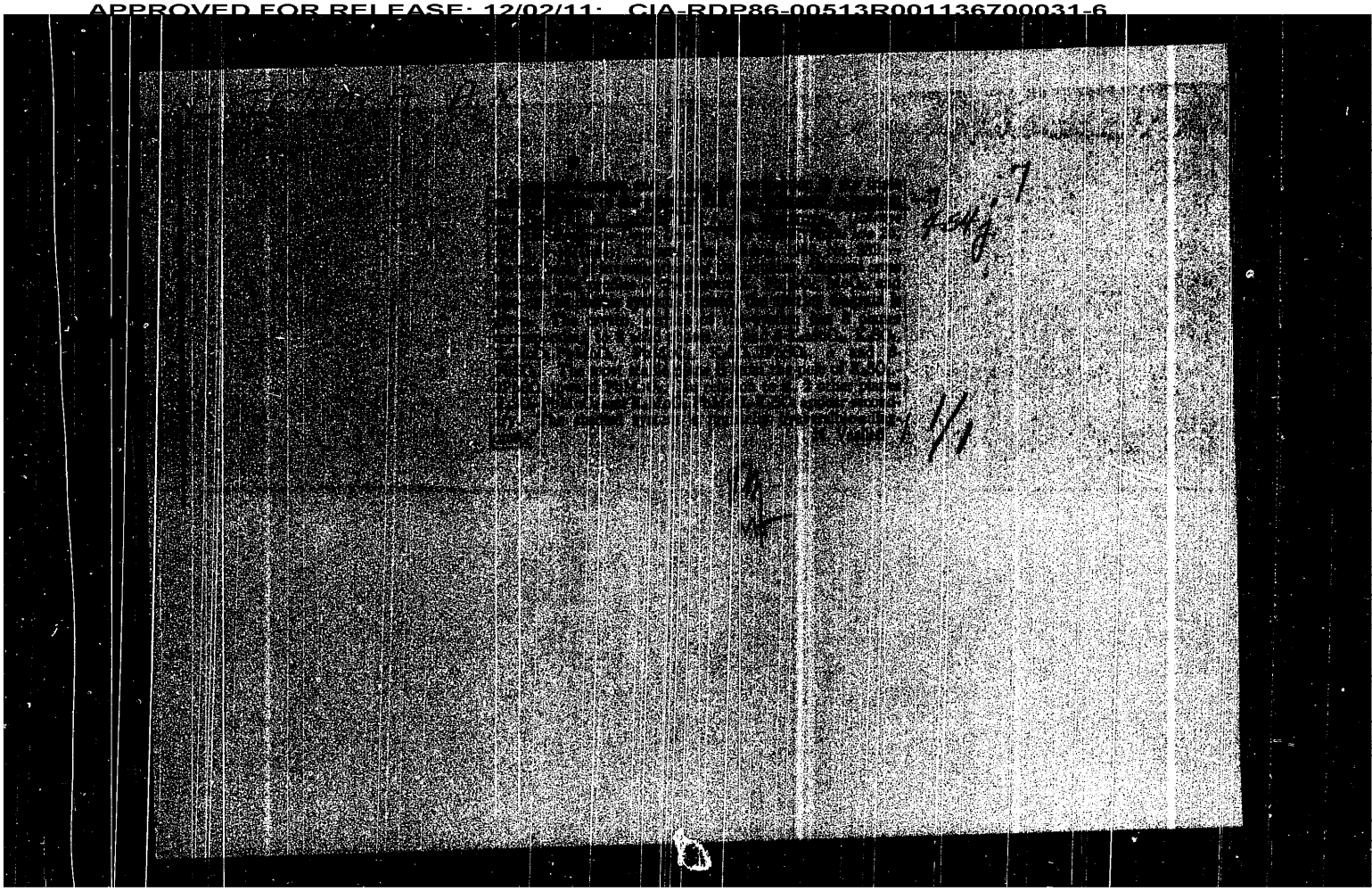
Title : Application of the visual-polythermal method to the study of silicate systems

Periodical : Dok. AN SSSR 101/3, 483-486, Mar 21, 1955

Abstract : Experimental material is presented proving the perfect applicability of the visual-polythermal method for the study of silicate systems, especially, well-crystallizing systems. The visual-polythermal system is considered inapplicable for the study of systems producing stable glass but it can be employed in determining the boundaries of stable zones of not easily detectable glass formation. The applications of the visual-polythermal method in plant laboratories are listed. Seven references: 3 USSR, 2 USA and 2 German (1909-1954). Graphs.

Institution : The V. M. Molotov State University, Rostov

Presented by : Academician G. G. Urazov, June 24, 1954



NESTEROVA, A. K.

Dissertation: "Physicochemical Analysis of Fluoride-Silicate Mutual Systems in Which Salts of Alkali Metals and of Alkaline Earth Metals Participate." Cand Chem Sci, Rostov-on-Don State U, Rostov-on-Don 1953.

W-30928

SO: Referativnyy Zhurnal, No. 5, Dec 1953, Moscow, AN USSR (~~XXXXXXX~~)

BELYAEV, I.N.; NESTEROVA, A.K.

The diagonal-adiagonal transition-type irreversibly reciprocal ternary system of potassium and lead sulfates and tungstates.
Doklady Akad. Nauk S.S.S.R. 86, 949-52 '52. (MLRA 5:11)
(CA 47 no.13:6237 '53)

1. Gosudarstvennyy universitet imeni V.M. Molotova, Rostov/on Don.

USSR/Chemistry - Lead, Titanium, and Vanadium Compounds — Mar 52

"Fusibility of Ternary System Lead Oxide - Vanadium Pentoxide - Titanium Dioxide," I. N. Belyayev, A. K. Nesterova, Lab of Chem Phys, Rostov State U

"Zhur Obshch Khim" Vol XXII, No 3, pp 396-403

Diagram of fusibility shows the fields of crystn of PbO, Pb_2TiO_4, 8 $PbO \cdot V_2O_5$, 3 $PbO \cdot V_2O_5$, of a compd with the general formula 10 $PbO \cdot V_2O_5 \cdot TiO_2$ which was obtained for the 1st time, TiO_2, and regions of glass formation. Two incongruently melting compds (2 $PbO \cdot TiO_2$ and $PbO \cdot TiO_2$) are formed in

209T38

USSR/Chemistry - Lead, Titanium, and Vanadium Compounds (Contd) — Mar 52

the system $PbO-TiO_2$. Stability of the metatitanate increases in presence of V_2O_5. The regions of the concns of the components recommended for obtaining large crystals of lead metatitanate and titanium dioxide are indicated.

209T38

NESTEROVA, A. K.

Nesterova, A. E.

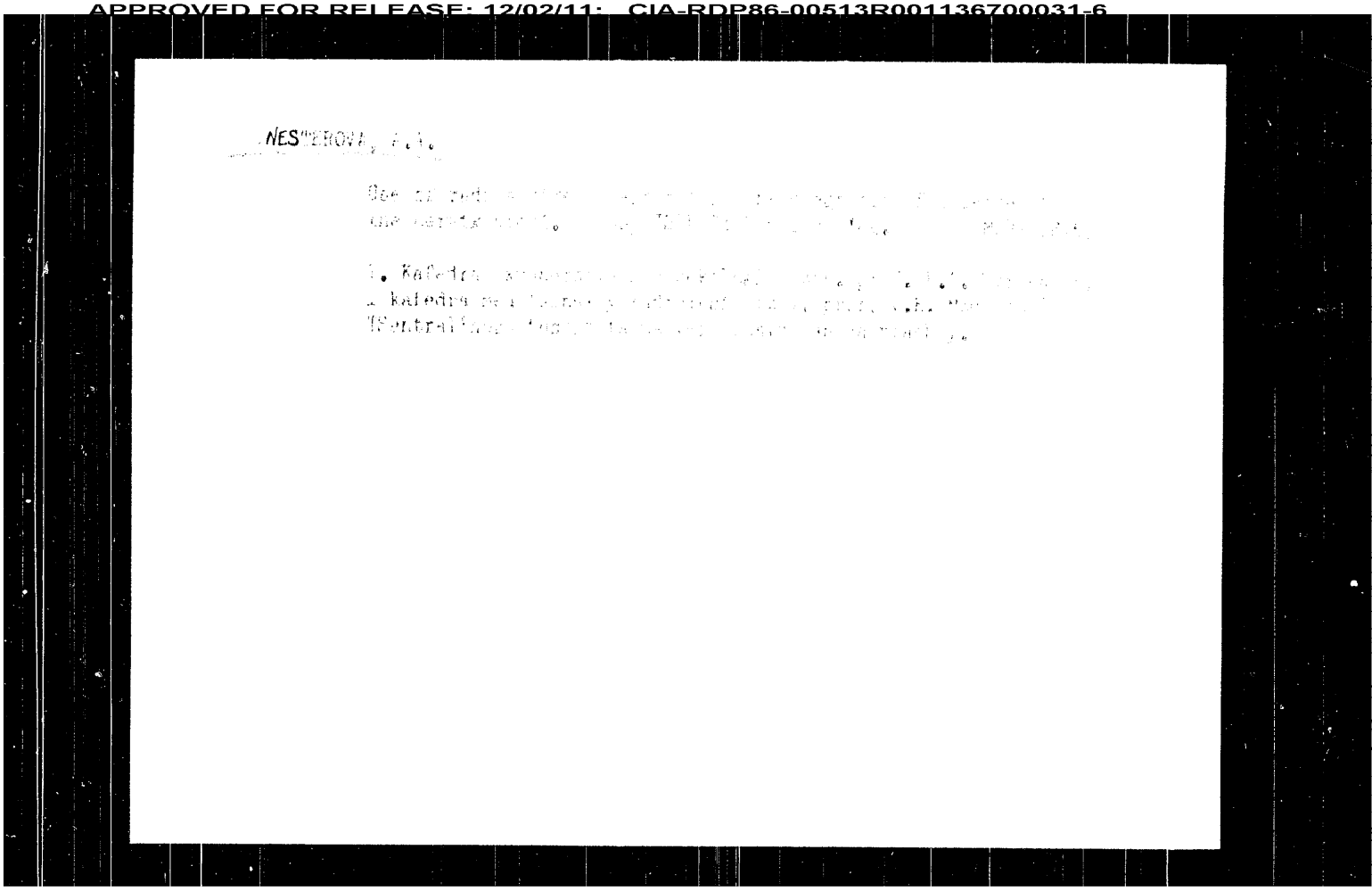
C[illegible]RENKOV RADIATION OF EXT[illegible] [illegible] AIR [illegible] OF COSMIC RAY[illegible]

A.E. Chudakov, N.M. [illegible], V.I. [illegible]

Measurements of Cerenkov radiation [illegible] [illegible] [illegible] above sea level. The results of our previous measurements are given in ([illegible],).

The apparatus consisted of an optical system that [illegible] and a hodoscope with a large number of Geiger counters. The master signal was produced when pulses in two light detectors in the center of the apparatus coincided.

Report presented at the International Cosmic Ray Conference, [illegible], 6-11 [illegible] 195[illegible]



NESTEROVA, F.I.

KOZYREVA, A.L., kand. med. nauk; NESTEROVA, A.A.

Treatment of polycythemia with radioactive phosphorus and the sexual functions of the female organism. Trudy TsIU [illegible] 16. (MIRA 18:6)

1. Kafedra meditsinskoy radiologii (zav. prof. V.K. Modestov), kafedra akusherstva i ginekologii (zav. prof. F.A. Syrovatko), kafedra laboratornoy diagnostiki (zav. prof. Ye.A. Kost) Tsentral'nogo instituta usovershenstvovaniya vrachey.

NESTEROVA, A.A. (Moskva)

Effect of some endocrine preparations on the development of pathological processes in a mammary gland. Eksper. khir. i anest. 8 no.3:16-19 My-Je '63 (MIRA 17:1)

NESTEROVA, A. A. (Moskva)

Antitumor action of pigmented eye tissue as a component of the potential protective forces of the body. Eksper. khir. no.3: 63-69 '62. (MIRA 15:7)

(TUMORS) (EYE) (IMMUNITY)

NESTEROVA, A.A.

Experience in heterotransplantation of female breast tumor into the anterior chamber of the eye and mammary gland of guinea pigs. (MIRA 14:10)
Eksper.khir.i anest. 6 no.4:53-57 '61.
(TUMORS--TRANSPLANTATION)

MESTEROVA, A.A.

Effect of ocular pigment tissue on the experimental development of tumors [with summary in English]. Eksper.khir. 3 no.1:7-12 Ja-F '58. (MIRA 11:2)

1. Iz Instituta khirurgii imeni A.V.Vishnevskogo (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR.

(EYE, neoplasms
exper., eff. of iris & retinal pigment on pathogen. in anterior chamber (Rus))
(PIGMENTS
iris & retinal, eff. on pathogen. of exper. tumors in anterior chamber of eye (Rus))
(RETINA
pigments, eff. on pathogen. of exper. tumors in anterior chamber of eye (Rus))
(IRIS
same)

ACCESSION NR: AP4040696

of welders. Welds of satisfactory quality can be obtained over a rather wide range of magnitudes and durations of forging pressures. However, the time of application of pressure is rather critical as too early or too late application of forging pressure leads to formation of macrodefects in the weld nugget. The weight of the moving parts of the upper electrode drive (350 kg) does not significantly change the electrode pressure and can be taken into account when the initial pressure is selected. Orig. art. has: 7 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 00 ATD PRESS: 3049 ENCL: 00

SUB CODE: MM NO REF SOV: 001 OTHER: 000

Card 2/2

ACCESSION NR: AP4040696 S/0135/64/000/006/0011/0015

AUTHOR: Chuloshnikov, P. L. (Engineer); Nesterov, Yu. V. (Engineer)

TITLE: The spot welding of aluminum alloys on the condenser machine

SOURCE: Svarochnoye proizvodstvo, no. 6 (630), 1964, 11-15

TOPIC TAGS: welding, spot welding, aluminum alloy welding, alloy spot welding, stored energy welding, stored energy welder, MTK-75 welder

ABSTRACT: The spot welding of aluminum alloys on the MTK-75 stored energy welder was investigated. The investigation showed that the welding current pulses of MTK-75 welder have adequate technological characteristics which permit welding aluminum alloys 0.3—2.5 mm thick with good reproducibility of weld strength over a wide range of working conditions. High quality joints between dissimilar alloys and dissimilar thicknesses were noted. No special preparation of surfaces and no specially close fits between the surfaces to be welded are required, as compared to existing requirements for other types

Card 1/2

L 40341-66

ACC NR: AP6016743

ical method with the author's modification is more accurate and simpler than that presented in the textbook by Ye. B. Ioel'son. Orig. art. has: 5 figures, 1 table.

SUB CODE: 11/ SUBM DATE: none / ORIG REF: 002/

Card 2/2

L 40341-66 EWP(j)/EWT(m) RM

ACC NR: AP6016743 (N) SOURCE CODE: UR/0229/65/000/012/0034/0037

AUTHOR: Nesterov, Yu. F.

ORG: None

TITLE: A study of marine insulation made of materials with similar heat conductivity coefficients

SOURCE: Sudostroyeniye, no. 12, 1965, 34-37

TOPIC TAGS: marine engineering, insulating material, heat conductivity, heat transfer coefficient

ABSTRACT: The author studies insulation made of materials with similar coefficients of heat conductivity and compares and selects methods for calculating this type of insulation. The class of structures to be insulated includes such items as bulkheads, decking, partitions, coaming, doors for air conditioned cabins and others. The coefficients of heat conductivity are given for insulating materials and wood, the basic components of marine insulation. Heat grid patterns are given for the various designs. The thermal grid pattern is used for the experimental solution of heat conductivity problems and for selecting the best designs for insulating structures. A table is given for heat transfer factors. It is shown that thermal grid patterns may be used in applying the classical method of heat flow zones to calculating insulation. The class-

Card 1/2 UDC: 629.12.002.29:662.99

NESTEROV, Yu.F., kand.tekhn.nauk

Determining [illegible]
and adhesive [illegible]
no.75:23-28 '54.

NESTEROV, Yu.F., kand.tekhn.nauk

Determining the coefficient of [illegible] corrugated constructions of [illegible]. Trudy LIVT no.[illegible] '62.

NESTEROV, Yu.F., kand. tekhn. nauk

Calculating solar radiation in the design of refriegerator ships. Trudy LIVT no.35:13-20 '62. (MIRA 16:11)

NESTEROV, Yu.F., kand.tekhn.nauk

Determining the smallest ribband width in heated spaces.
Sudostroenie 28 no.[illegible]4-25 S '62. (MIRA 15:10)
(Insulation (Heat)) (Shipbuilding)

NESTEROV, Yu.F., kand.tekhn.nauk

Heat penetration into refrigerator holds along the perimeters of intermediate decks and bulkheads. Sudostroenie 27 no.9:27-29 S '61. (MIRA 14:11)

(Refrigeration on ships)
(Insulation (Heat))

NESTEROV, Yu.F., kand.tekhn.nauk

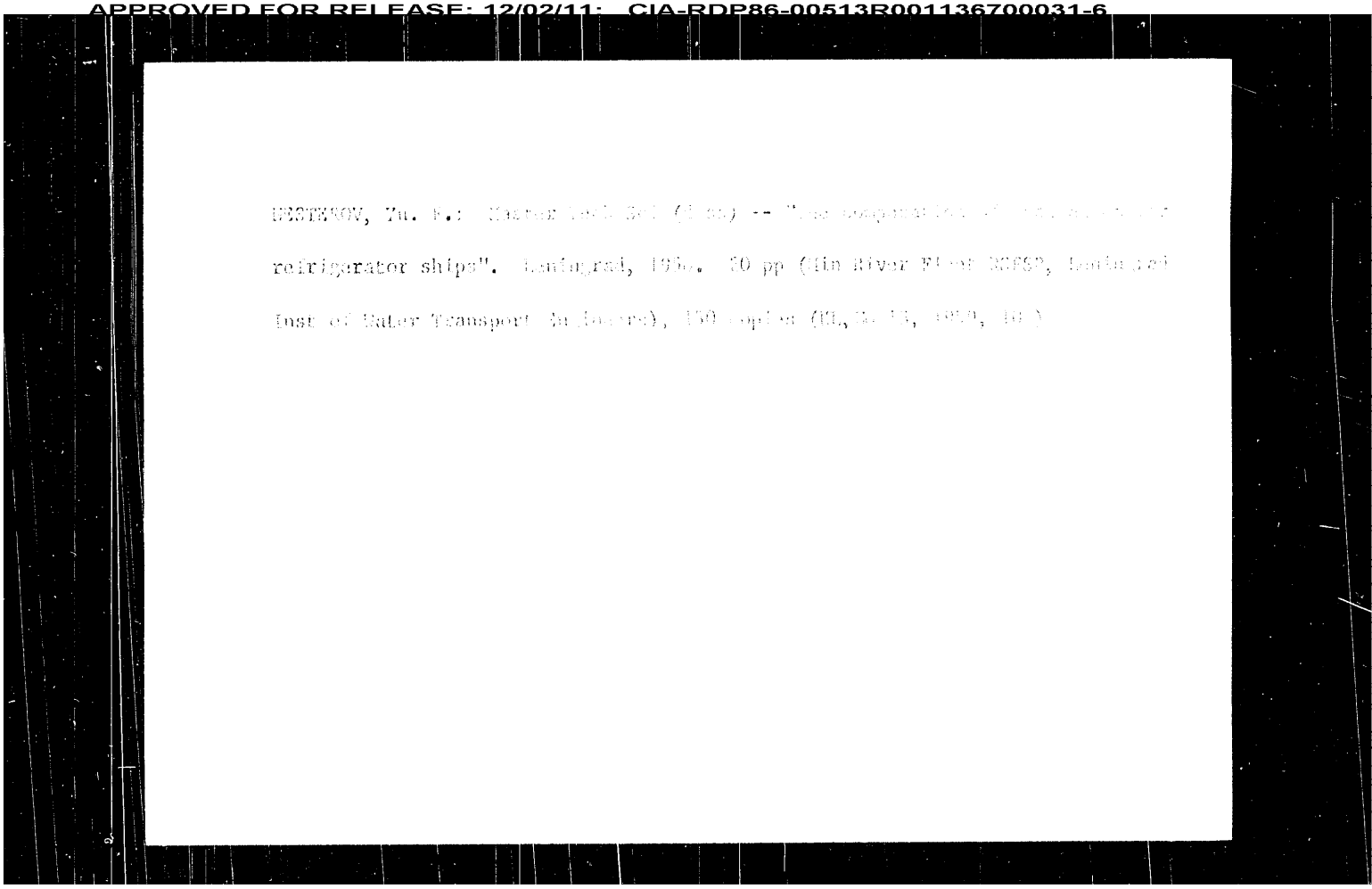
Determining the coefficient of heat transmission for corrugated structures insulated with corrugation bypass and air interlayers. (MIRA 14:9)
Trudy LIVT no.11:7-12 '61.
(Heat--Transmission) (Bulkheads (Naval architecture))

KRAKOVSKIY, Ivan Ivanovich, prof.; NESTEROV, Yu.F., retsenzent; SHILYAYEV, P.N., retsenzent; MARKEVICH, V.F., red.; KAN, P.M., red. izd-va; RIDNAYA, I.V., tekhn. red.

[Auxiliary marine engines] Sudovye vspomogatel'nye mekhanizmy. Moskva, Izd-vo "Rechnoi transport." Pt.2. [Marine pumps] Sudovye nasosy. 1961. 174 p. (MIRA 15:1)
(Marine engineering) (Pumping machinery)

NESTEROV, Yu.F., inzh.

Graphs used for calculating insulation on ships. Sudostroenie 24 no.7:25-30 Jl '58. (MIRA 11:9)
(Cold storage on shipboard) (Insulation (Heat))



[illegible], Yu. F.: Master [illegible] Sci (diss) -- "[illegible] refrigerator ships". Leningrad, 1956. 20 pp (Min River Fleet USSR, Leningrad Inst of Water Transport Engineers), 150 copies (KL, No 13, 1957, 104)

USSR/Diseases of Farm Animals - Diseases Caused by Bacteria and Fungi.

Abs Jour : Ref Zhur - Biol., No 11, 1958, 50195

Author : Nesterov, Yu.F., Semenchuk, K.L., Timchenko, A.D.

Inst :

Title : Serological Diagnosis of Tuberculosis in Domesticated Birds.

Orig Pub : Ptitsevodstvo, 1958, No 1, 44.

Abstract : On a farm where bird tuberculosis was in evidence, 460 hens were examined by the fast blood-drop method of the agglutination reaction (FBD; AR). In 41.2 percent of the hens the reaction was positive, in 18 percent the reaction was doubtful. Of 11 killed hens which reacted positively to the FBD AR test, 9 showed typical tubercular changes in their organisms, and tubercular cultures could be isolated.

Card 1/1

KOSTENKO, I.R. (Tashkent); NESTEROV, Yu.B. (Tashkent)

Improve methods for forecasting main cotton pests.
Zashch. rast. ot vred. i bol. 7 no.7:45-47 Jl '62.
(MIRA 15:11)

1. Nachal'nik Upravleniya zashchity rasteniy Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktov Uzbekskoy SSR (for Kostenko). 2. Rukovoditle' respublikanskogo sektora sluzhby ucheta i prognozov Upravleniya zashchity rasteniy Ministerstva proizvodstva i zagotovok sel'skokhozyaystvennykh produktor Uzbekskoy SSR (for Nesterov).

(Uzbekistan—Cotton—Diseases and pests)
(Uzbekistan—Insects, injurious and beneficial)

NESTEROV, Yu.B.; BONDARENKO, S.Kh., agronom-entomolog; DUBROVIN, B.L., agronom-entomolog

Possibilities for using the AG-L6 aerosol generator in cotton growing. Zashch. rast. ot vred. i bol. 3 no.4:16-17 Jl-Ag '58. (MIRA 11:9)

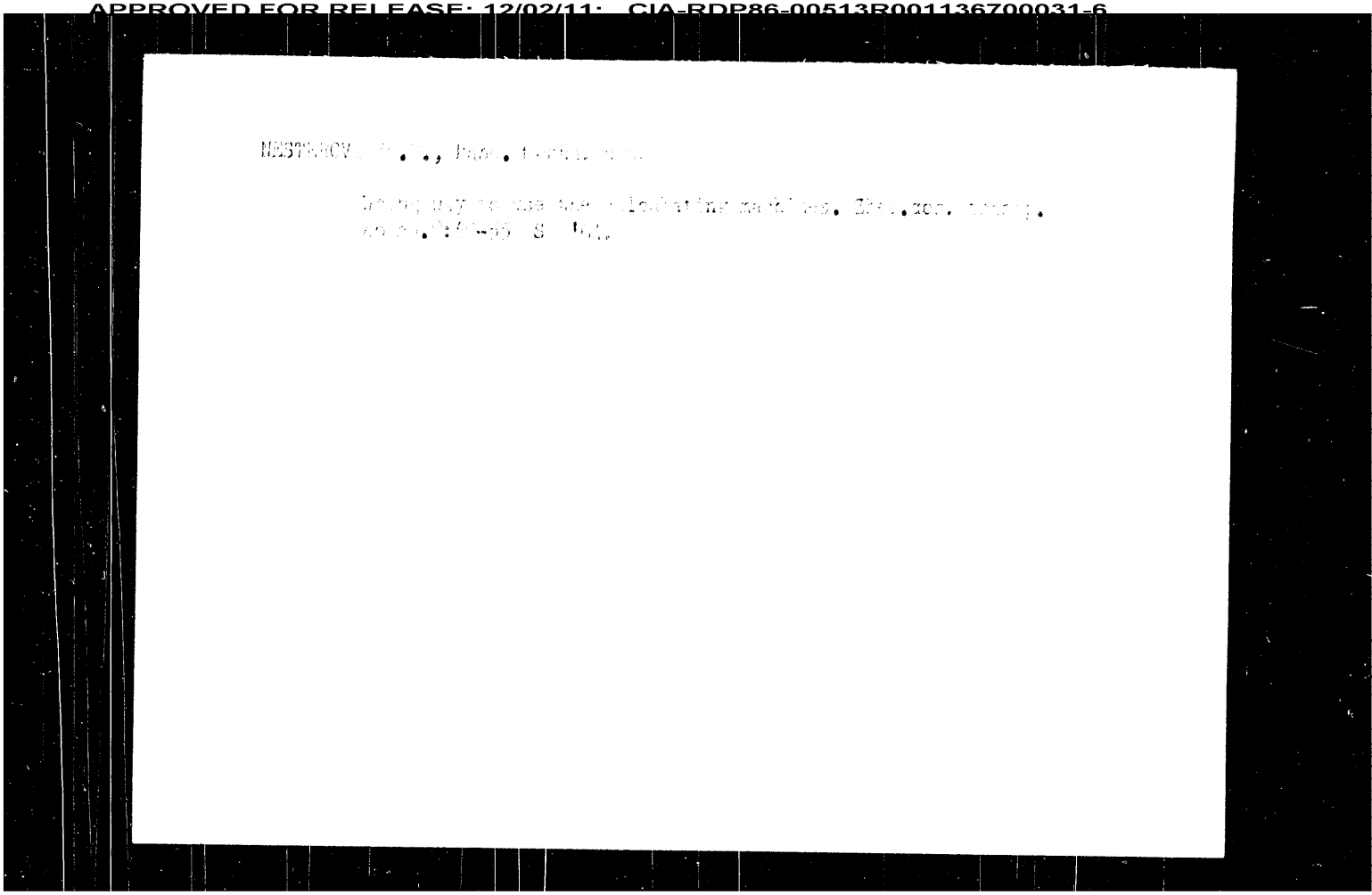
1. Starshiy agronom-entomolog Ministerstva sel'skogo khozyaystva UzSSR (for Nesterov). 2.Tashkentskoye oblsel'khozupravleniye (for Bondarenko, Dubrovin).
(Cotton--Diseases and pests) (Aerosols)

ANISIMOV, B.V., kandidat tekhnicheskikh nauk, dotsent; NESTEROV, Ye.V., inzhener.

Experimental investigation of the high-speed action of some trigger circuits. Trudy MVTU no.55:58-61 '55. (MLRA 9:8)
(Electronic calculating machines)

NESTEROV, Ye.V.

Analysis of the effect of circuit members on the trigger operation.
Trudy MVTU no.55:26-33 '55. (MLRA 9:8)
(Electronic calculating machines)



NESTEROV, Ye. I., kand. [illegible] nauk

Wrong way [illegible] ...ating machines [illegible]
[illegible] [illegible]

APPROVED FOR RELEASE: 12/02/11: CIA-RDP86-00513R001136700031-6

BIRMAN, Igor' Yakovlevich; [illegible], Viktor [illegible]vich; [illegible], Ye.[illegible], retsenzent; [illegible], A.[illegible], retsenzent; [illegible], Ye.[illegible], retsenzent; [illegible], [illegible], red.

[Methodological instructions on the u[illegible] of line[illegible] program-ming in the determination of optimum networks [illegible], supply, and distribution in enterprises] [illegible] zaniia po opredeleniiu optimal'nykh [illegible], [illegible] zheniia i razmeshcheniia predpriiatii [illegible] go programmirovaniia. Moskva, Ekonomi[illegible], [illegible] [illegible]

1. Moscow. Nauchno-issledovatel'skiy institut [illegible] stroitel'stva.

VINOGRADOV, A.N.; LIVSHIN, G.L.; OBRAZTSOVA, R.I.; TULUPOV, L.P.; Prinimali uchastiye: RAZORENOVA, L.K., inzh.; DUBINKINA, L.I., inzh.; PODGORNYKH, A.L., inzh.; LAVRENT'YEV, N.V., retsenzent; MINAKOV, A.D., retsenzent; NESTEROV, Ye.P., retsenzent; STEFANOV, N.Ya., retsenzent; USHAKOV, P.S., retsenzent; KRISHTAL', L.I., red.; KHITROVA, N.A., tekhn. red.

[Calculating machines in accounting, planning and administration in railroad transportation] Vychislitel'naia tekhnika v uchete, planirovanii i upravlenii na zheleznodorozhnom transporte. [By] A.N.Vinogradov i dr. Moskva, Transzheldorizdat, 1963. 407 p. (MIRA 17:2)

KAPLAN, A.B.; NESTEROV, Ye.P., retsenzent; KRISHTAL', L.I., red.; DROZDOVA, N.D., tekhn. red.

[Cybernetics in railroad transportation] Kibernetika na zheleznodorozhnom transporte. Moskva, Transzheldorizdat, 1963. 66 p. (MIRA 16:11)
(Railroads--Electronic equipment)
(Railroads--Management)

PETROV, A.P., doktor tekhn. nauk, prof.; TULUPOV, L.P., kand. tekhn. nauk; KRYUKOV, N.D., kand. tekhn.nauk; GUNDOBIN, V.N., inzh.; VASIL'YEV, G.S., kand. tekhn. nauk; GRISHIN, M.S., kand. tekhn. nauk; MOROZOVA, K.N., inzh.; ROZE, V.A., inzh.; LEVSHIN, G.L., inzh.; BERNGARD, K.A., doktor tekhn. nauk, prof.; BIKCHENTAY, M.A., inzh.; BUYANOV, V.A., inzh.; ILOVAYSKIY, N.D., inzh.; MUKHAMEDOV. G.A., kand. tekhn.nauk; MIROSHNICHENKO, A.P., inzh.; ANDRIANOV, V.P., inzh.; BUTS, V.D., inzh.; KAZIMOV, A.A., inzh.; KIREYEV, O.P., inzh.; DYUFUR, S.L., kand. tekhn. nauk; USTINSKIY, A.A., kand. tekhn. nauk; MIKHAYLOV, S.M., inzh.; NESTEROV, Ye.P., kand. tekhn. nauk, retsenzent; LIVSHITS, V.N., inzh., retsenzent; PREDE, V.Yu., inzh., red.; VOROTNIKOVA, L.F., tekhn. red.

[Control of transportation processes using electronic digital computers] Upravlenie perevozochnym protsessom s primeneniem elektronnykh tsifrovykh vychislitel'nykh mashin. Pod obshchei red. A.P.Petrova. Moskva, Transzheldorizdat, 1963. 207 p. (MIRA 16:8)

1. Chlen-korrespondent AN SSSR (for Petrov).
(Railroads--Management) (Electronic digital computers)

NESTEROV, Yevgeniy Pavlovich; OLEYNIK, Yu.A., retsenzent; PRIDE, V.Yu., inzh., red.; USENKO, L.A., tekhn. red.

[Transportation problems in linear programming] Transportnye zadachi lineinogo programmirovaniia. Moskva, Transzheldorizdat, 1962. 169 p. (MIRA 15:7)
(Linear programming) (Transportation)

Electronic computing techniques ...

and Ts0-18). Operational control of the digital computer is accomplished by repeated calculations and comparison of their results. The time consumed to prepare reports Ts0-12 and Ts0-16 is 3.25 man/hours, this is 30 times less than in the case of key-computing or analytical-computing machines. A need is stated for a break-through of digital computers into the accounting system and for transformation of mechanized accounting in transportation into railway computing centers with a network of small computing centers for individual routes. 2 figures. [Abstracter's note: Complete translation.]

Card 2/2

B/194/62/000/002/011/033
D250/D301

AUTHORS: Nesterov, Ye. P., Mon'shova, Z. I. and Mongrina, Z. ..

TITLE: Electronic computing techniques in railway statistics

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 2, 1962, abstract 2-1-117y (Zh-d. transport, 1961, no. 7, 31-34)

TEXT: This describes the application of the electronic digital computer СТРЕЛА (STRELA) in railway statistics; its purpose is to compile data, according to traffic information, about the distribution of increased freight on the line in distant zones (Форма ТсО-18 (Form TsO-18) and freight traffic, their runs and profit obtained on given routes (Form TsO-18). By means of special perforators the information from the initial documents is passed to an 80-column card perforator and subsequently transferred to the operating memory (the memory volume of the digital computer STRELA is 2048 cells). One card contains information from three routes. A procedure for obtaining the report is given (according to TsO-12

Card 1/2

NESTEROV, Ye.P., kand. tekhn. nauk; NEMCHINOV, V.S., akademik, otv. red.; KHACHATUROV, T.S., red. toma; LUR'YE, A.L., kand. ekon. nauk, red. toma; OLEYNIK, Yu.A., red. toma; SERMEROVSKIY, L.A., red. izd-va; RYLINA, Yu.V., tekhn. red.

[Transactions of the Scientific Conference on the Application of Mathematics in Economic Research and Planning] Trudy Nauchnogo soveshchaniia o primenenii matematicheskikh metodov v ekonomicheskikh issledovaniiakh i planirovanii, 1960. Moskva, Izd-vo Akad. nauk SSSR. Vol.5.[Planning and operation of transportation] Planirovanie i ekspluatatsiia na transporte. 1961. 99 p. (MIRA 15:8)

1. Nauchnoye soveshchaniye o primenenii matematicheskikh metodov v ekonomicheskikh issledovaniyakh i planirovanii, 1960. 2. Institut kompleksnykh transportnykh problem Akademii nauk SSSR (for Nesterov). 3. Institut ekonomiki Akademii nauk SSSR (for Khachaturov, Lur'ye). 4. Vychislitel'nyy tsentr Akademii nauk SSSR (for Oleynik). 5. Chlen-korrespondent Akademii nauk SSSR (for Khachaturov).
(Economics, Mathematical) (Transportation)

NESTEROV, Ye.P., kand.tekhn.nauk; RATIN, S.G., inzh.

Using calculating machines for the preparation of an optimal plan for empty car movement. Zhel.dor.transp. 42 no.1:81 Ja '60. (MIRA 13:5)
(Railroads--Freight cars)

KOVSHOV, G.N., inzh.; MOKROUSOVA, N.I., inzh.; MESTEROV, Ye.P., kand. tekhn.nauk

Computing planned car movements on an electronic calculating machine. Vest.TSNII MPS 19 no.5:23-25 '60. (MIRA 13:8)

1. Institut kompleksnykh transportnykh problem Akademii nauk SSSR.
(Railroads--Traffic)
(Electronic calculating machines)

NESTEROV, Ye.

Make the winter train movement schedule serve growing transport needs. Zhel.dor.transp. no.10:16-19 0'47. (MLRA 8:12)

1. Direktor-polkovnik dvizheniya
(Railroads--Cold weather operation)

NE[illegible]POV [illegible] (S[illegible]feropol')

M[illegible]hogenesis of pneumosclerosis in experimental lung c[illegible].

[illegible]zh. pat. 27 no.10:33-38 '65. (MIRA [illegible])

1. Kafedra patologicheskoy anatomii (zav. - prof. S.A.Vinogradov) Krymskogo meditsinskogo instituta.

NESTEROV, Ye.N. (Simferopol')

Histogenesis and organispecific characteristics of interstitial pneumosclerosis. Arkh. pat. 26 no.2:22-30 '64. (MIRA 17:8)

1. Kafedra patologicheskoy anatomii (zav. - prof. S.A. Vinogradov) Krymskogo meditsinskogo instituta.

YESIPOVA, I.K. (Moskva); NESTEROV, Ye.N. (Simferopol')

Microcystic lung, or so-called bronchiolar emphysema. Arkh. pat. 25 no.4:32-38 '63 (MIRA 17:4)

1. Iz Instituta morfologii cheloveka AMN SSSR (dir.-chlen-korrespondent AMN SSSR prof. A.P. Avtsyn) i Krymskogo meditsinskogo instituta (dir. - dotsent S.I. Georgiyevskiy).

MAVRIN, V.K.; NESTEROV, Ye.N.; BIRKUN, A.A. (Simferopol')

Experimental atelectasis according to histological and histochemical studies. Arkh. pat. 25 no.9:69-75 '63. (MIRA 17:10)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. S.A. Vinogradov) Krymskogo meditsinskogo instituta.

NESTEROV, Ye.N., kand.med.nauk; NESTERINA, A.F., kand.med.nauk

Case of septic ulcerous endocarditis in a child with subvalvular performation of the wall of the aorta. Vop. okh. mat. i det. 6 no.7:91-92 Jl '61. (MIRA 14:8)

1. Iz kafedry patologicheskoy anatomii (zav. - prof. S.A.Vinogradov) i kafedry detskikh infektsionnykh bolezney (zav. - dotsent S.M.Gavalov) Krymskogo meditsinskogo instituta (dir. - dotsent S.I.Georgiyevskiy).
(ENDOCARDITIS) (AORTA--DISEASES)

2714. HISTOGENESIS OF THE WALL OF PULMONARY CAVITIES IN CHRONIC TB (Russian text) · Nesterov V. N. - ARKH. PATOL. 1958, 20/11 (41-48) Illus. 4

The tuberculous pulmonary cavities of 36 patients who had died from the disease and 10 surgically removed lungs or parts thereof were examined. In total, 33 men and 13 women from 20 to 60 yr. of age were involved. The majority of them had been treated with antibiotics, PAS or phthivazid; only 3 patients had not been treated. From each cavity 4 or 5 pieces were examined. In the wall of chronic cavities the following layers may be distinguished: (1) a caseous-necrotic layer, (2) a specific granulation layer, (3) a non-specific granulation layer and (4) a fibrous layer of various origins. The wall of the cavity develops together with liquefaction of the caseous focus, beginning with the two innermost layers. The unspecific granulation layer develops from the interstitial connective tissue of the lung and partakes in a small degree in the formation of the outer fibrous layer. The latter develops mainly through carnification of the exudate, fibroatelectasis, and interstitial pneumonia with involvement of the surrounding connective tissue. Its formation may be different in the various parts of the lung. The sclerosis of the granulation tissue is a reconstructive process and is one of the factors determining the size of the cavity. Scars in the region of the atelectasis and of carnifying processes are only perifocal reactions, which sometimes may delay cure of the cavity.

Brandt - Berlin (V, 15)

NESTERCV, Ye. N.: Master Med Sci (diss) -- "The histogenesis of the wall of the tuberculous lung cavern". Simferopol', 1958. 12 pp (Crimean State Med Inst im I. V. Stalin, Chair of Pathological Anatomy), 200 copies (KL, No 7, 1959, 157)

NESTEROV, YE. N.

NESTEROV, Ye.N.; CHERNYAYEV,E.L.

Case of isolated lymphogranulomatosis of the spermatic cord. Nov. khir.arkh. no.2:79 Mr-Ap '57. (MLRA 10:8)

1. Kafedra patologicheskoy anatomii i fakul'tetskoy khirurgii Krymskogo meditsinskogo instituta

(SPERMATIC CORD--TUMORS)

AKHMECHET, L.S.; BLOKH, O.I.; MATSIYEVSKIY, A.G.; NESTEROV, Ye.N.; SVIRIDENKO, S.Kh.

Selecting parameters for vibration bin feeds. Stan. i instr. 30 no.2: 8-9 F '59. (MIRA 12:3)
(Machine tools--Attachments)

Nesterov, Ye. D

AID Nr. 966-15 14 May

AERODYNAMICALLY REGULATED NOZZLE OF A TURBOJET ENGINE (USSR)

Nesterov, Ye. D. Izvestiya vysshikh uchebnykh zavedeniy. Aviatsionnaya tekhnika, no. 1, 1963, 96-103. S/147/63/000/001/011/020

The performance of an aerodynamically regulated nozzle of a turbojet engine is compared analytically with that of a mechanically controlled nozzle in terms of two basic parameters: thrust and gas temperature before the turbine. The data obtained show that an increase in thrust of 10% corresponds to an increase in gas temperature before the turbine of 6.5 to 9%, where the lower limit corresponds to the mechanically controlled nozzle, and the upper, to the aerodynamically controlled nozzle. The analysis is based on the results of model testing conducted previously by the author. [AC]

Card 1/1

Aerodynamic contraction of a gas ...

"dead water" or separation zone does not extend beyond the cylindrical portion and maintains the same static pressure as that at the end of the cylindrical portion. In a numerical example, the specific contraction area is given as a function of the total pressure ratio of the controlling and the main flows.

There are 10 figures.

SUBMITTED: March 21, 1961

Card 4/4

speed, and finally a forced draft arrangement with an axial compressor having a constant compressor speed. Similar cases can be considered when the main flow is that in a ramjet engine or a rocket engine. A numerical example of an induced draft nozzle is discussed applicable to the experiments of A.J.Martin Ref.3). The effectiveness of aerodynamic control is judged by the specific contraction area defined as the contraction of the main jet divided by the area of the injection slot. A fair agreement is found between present theory and experiments. Effective flow control with acceptable pressure losses can be achieved at an injection angle between 90° and 70°. Russian tests (Ref.2: A.G. Zenukov, Izv.vuz Aviatsionnaya tekhnika, no.1, 1959) are compared with the present theory. In these experiments, the depth of penetration of the controlling flow was judged by the size of the orifice having the same effect as aerodynamic contraction. This effective contraction depth is compared with values obtained analytically in the present paper, showing satisfactory agreement. A similar analysis is indicated for the Laval nozzle in which it is assumed that the

In common with the work of A.I. Martin (Ref.3: Journal of the Aeronautical Sciences, v.24, no.5, 1957) an instantaneous mixing of the two flows is assumed. It is further assumed that the injected flow expands to reach the static pressure of the main flow at injection angles between 90° and 180° and to the pressure of the partially decelerated flow at injection angles between zero and 90°. The equations for the convergent nozzle are set up. Six equations are derived from the flow geometry; the condition of expansion of the injection flow, continuity, the momentum equation, the energy equation and the relation between total pressures (with two variants, with and without losses). The ratio of the two mass flows is introduced as well as the gas constant and the ratio of specific heats for the mixture. The six equations so formulated have eight unknowns. The remaining two equations are furnished by the power characteristics of the generation of the main flow. Several variants are considered, namely: an induced draft arrangement, a forced draft arrangement with a centrifugal compressor, either with a constant compressor speed or a variable compressor

S/147/62/000/001/010/015
E191/E135

AUTHOR: Nesterov, Ye.D. (Kazan')

TITLE: Aerodynamic contraction of a gas stream

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Aviatsionnaya tekhnika, no.1, 1962, 82-91

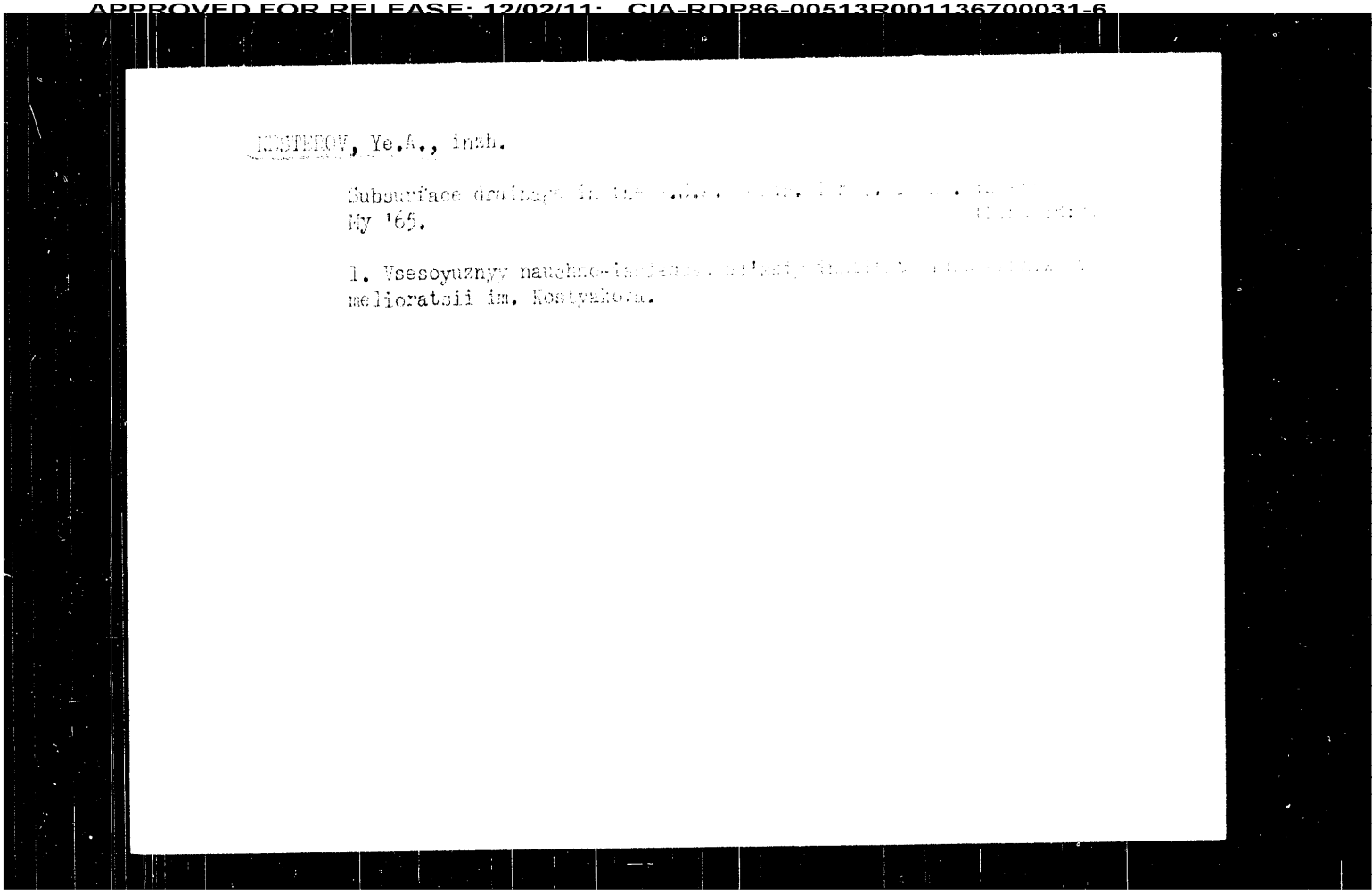
TEXT: The interaction of two streams of a compressible fluid directed at an angle to each other is considered. The main flow of a gas is contracted by an injected flow supplied through an annular slot placed in the region of the minimum cross-section of the main flow. The conditions of aerodynamic contraction are derived for a converging nozzle and a Laval nozzle. In the converging nozzle, the separation zone is made to communicate with the atmosphere, whilst in the Laval nozzle the separation zone is a totally enclosed region. The interaction between the flows is considered when the ratio of the total pressures corresponds to velocity coefficients of the injected flow below unity and when the rate of flow of the injected flow is less than 6% of the main flow. The absence of heat exchange is assumed. One-dimensional analysis is applied.

Card 1/4

NESTEROV, Ye.A., kand.

Hydraulic suspension device of the working parts of land improvement machines. Gidr. i mel. 17 no.9:51-56 S '65.
(MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii im. Kostyakova.



KOSTENOV, Ye.A., inzh.

Subsurface drainage [illegible]
My '65.

1. Vsesoyuznyy nauchno-[illegible] i
melioratsii im. Kostyakova.

L 23202-66

ACC NR: AP6008728 (A) SOURCE CODE: UR/0356/65/000/011/0022/0026

AUTHOR: Kaplan, R. (Engineer); Nesterov, Ye. (Engineer)

ORG: none

TITLE: A mobile-water raising installation

SOURCE: Tekhnika v sel'skom khozyaystve, no. 11, 1965, 22-26

TOPIC TAGS: water, pump, special purpose truck, agricultural machinery/ PPV-30 special purpose truck

ABSTRACT: The authors describe the PPV-30 mobile unit developed by the Kazakh Scientific Research Institute of Mechanization and Electrification of Agriculture designed for raising water from well shafts up to 30 m deep. The unit consists of an O-16-A air compressor, a PN-2K pneumatic pump and a mechanical winch mounted on a UAC-450D truck. The compressor is driven at 1100-1200 rpm from the truck engine through a power takeoff shaft. The output air pressure varies from 3 to 4 kg/cm^2. Using this mobile unit, a single driver may cover ten watering places separated by up to 5 km in a single seven-hour shift pumping 5 cubic meters of water from each well. The pump has a capacity of 12 cm^3/hr with a head of up to 30 meters. The unit is very useful on sheep ranches. Orig. art. has: 3 figures.

SUB CODE: 02/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000

Card 1/1 PB UDC: 621.649.7:633.2.033

NESTEROV, Ya.S.

Forced fruiting of apple and pear seedlings brought about by biological ringing. Nauch. dokl. vys. shkoly; biol. nauki no.1: 180-184 '64. (MIRA 17:4)

1. Rekomendovana kafedroy selektsii plodovykh kul'tur i botaniki Michurinskogo plodoovoshchnogo instituta.

NESTEROV, Ya.S.

Period of rest of the root system of the apple tree. Dokl. AN SSSR 147 no.5:1230-1233 D '62. (MIRA 16:2)

1. Plodoovoshchnoy institut im. I.V. Michurina. Predstavleno akademikom A.L. Kursanovym.
(Roots (Botany)) (Apple) (Dormancy in plants)

NESTEROV, Yakov Stapanovich, kand. sel'khoz. nauk; SERGEYEV, V.I., red.;
PEVZNER, V.I., tekhn. red.

[Rest period of fruit trees] Period pokoia plodovykh kul'tur.
Moskva, Sel'khozizdat, 1962. 150 p. (MIRA 15:6)
(Dormancy in plants) (Ftuit trees)

NESTEROV, Ya.S.

Role of low temperatures in the formation of sporogenic tissues in the apple tree. Dokl. AN SSSR 141 no.5:1243-1245 D '61. (MIRA 14:12)

1. Plodoovoshchnoy insitut im. I.V. Michurina. Predstavleno akademikom A.L. Kursanovym.

(Plants, Effect of temperature on)
(Plants—Reproduction)

NESTEROV, Ya.S.

Second flowering in fruit plants. Bot. zhur. 46 no. 2:266-270 F '61. (MIRA 14:2)

1. Plodoovoshchnoy institut im. I.V. Michurina, g. Michurinsk.
(Plants, Flowering of) (Fruit culture)

NESTEROV, Ya.S.

Effectiveness of the use of pollen mixtures in intervarietal pollination of apple trees. Nauch. dokl. vys. shkoly; biol. nauki no.4: 171-177 '61. (MIRA 14:11)

1. Rekomendovana kafedroy selektsii Michurinskogo plodoovoshchnogo instituta im. I.V.Michurina.
(APPLE BREEDING)

NESTEROV, Ya.S.

Setting of flower buds and differentiation of parts of the flower in apple trees. Fiziol.rast. 6 no.2:176-182 Mr-Ap '59. (MIRA 12:5)

1. Maykop Experimental Station of All-Union Institute of Plant Husbandry, Krasnodar Region.
(Apple) (Plants, Flowering of)

NESTEROV, Ya. S.

Effect of rootstock on the growth and fruiting of hybrid apple seedings. Nauch. dokl. vys. shkoly; biol. nauki no.3:186-190 '60.
(MIRA 13:6)

1. Rekomendovana kafedroy selektsii Michurinskogo plodovoshchnogo instituta im. I.V. Michurina.
(Apple) (Grafting)

20-3-42/52

The Resting Period and Winter Hardiness in Horticulture.

ration of the resting period in order to be able to obtain new, more winter hardy species. Also the want of warmth of different plants during the early spring ought to be considered.
There are 3 tables and 10 Slavic references.

ASSOCIATION: All-Union Institute for Cultivation of Plants (Vsesoyuznyy institut rasteniyevodstva)

PRESENTED: June 28, 1957, by A.L.Kursanov, Academician

SUBMITTED: February 9, 1957

AVAILABLE: Library of Congress

Card 3/3

were kept in boxes in the laboratory. It was found out, that the cut-off branches observe the resting period, start, however, earlier than the whole plants with the vegetation. (Tab.1). This difference in the start of the vegetation fluctuates on an average of 3 to 3o days with all kinds. This differnece becomes the more apparent the earlier the cut-off branches and the whole plants are brought into a warm room. After the resting period this difference between branches and plants becomes unessential or the vegetation even starts simultaneously. The winter hardiness depends strongly on the duration of the resting period. (Tab.2). With apples, which have a varying resting period, it depends on the condition of temperature, Plants having a short resting period start ot shoot earlier during a heating in winter and suffer by the frost. At a gradual cooling and a long lasting, however, also the plants having a short resting period have nochance of vegetaion. They endure the winter better (Tab.2) There rules also hold for pears and plums. It is rather certain that the duration of the resting period is passed on with cross-breedings. The hybrids of a cross-breeding of plants with a long and short resting period showed a short resting period. This makes it important to consider at cross-breedings the du-

Nesterov, Ya. S.

20-3-42/52

AUTHOR: Nesterov, Ya. S.,

TITLE: The Resting Period and Winter Hardiness in Horticulture (Period pokoya i zimostoykost' plodovykh kul'tur)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 117, Nr 3, pp. 507-510 (USSR)

ABSTRACT: A number of investigations have demonstrated, that the resting period is a sign of an adaptability of the plants to the climatic conditions, which has been developed in the course of a long evolution-period. But opinions differ widely whether this resting period means a winter- or a frost-hardiness. According to the author's point of view based on the observation of the resting period its depth and its duration can not be sharply outlined. The physiological and biological basis for these properties are apparently not homogenous. This was taken as hypothesis for the observations on various fruits. The primarily applied, widely spread phenological method proved to be not absolutely authentic. The cut-off branches dried up as a result of the perturbation of the food- and water assimilation. In order to find out what sort of influence th cutting off exercises upon the resting period of the branches every fifteen days during January and February new branches were cut-off and kept in the laboratory at 15 to 20° in water. At the same time plants of the same kind

Card 1/3

USSR/Cultivated Plants. Fruits. Berries. I

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68338

Chinese, Shenyanren Chinese, Tsylin Saffron, 600-gram Antonovka, Pepin-Chinese, and Par- dox strains started bearing fruit on the third to fifth year after they were set out. When ta- ken care of properly, the Red Standard, Saffron Antonovka, Seedless Michurin, Saffron Chinese, Bellefleur Chinese, Saffron Pepin, and several others, give yields of more than 200 kilograms per tree, thus exceeding the yields of many strains planted extensively in the south. Many of the strains are good in taste and possess a high sugar content (up to 11 percent). The Michurin strains are practically auto-sterile, and cross-pollination is necessary for high yields. Research of the biology of growth and

Card : 2/3

159

USSR/Cultivated Plants. Fruits. Berries.

Abs Jour : Ref Zhur-Biol., No 15, 1958, 68336

Author : Nesterov, Ye. S.
Inst :
Title : The Biology of Growth and Fertility of Michurin Apple Strains in the Foothill Zone of the Northern Caucasus.

Orig Pub : Tr. po prikl. bot., genet. i selektsii, 1957, 30, No 3, 197-210

Abstract : Michurin apple strains hardly suffer at all from the severe winters of the Northern Caucasus foothills. The strains which finish vegetation early, proved to be better prepared for winter conditions; in the vegetation period they suffer less from scab. The Early Golden

Card : 1/3

USSR/Cultivated Plants - Fruits. Berries. M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53796

Author : Nesterov, Ya.S.
Inst : -
Title : The Best Michurin Varieties of Apple Tree for the Krasnodarskiy Kray

Orig Pub : Michurinsk. sv. Krasnodar, "Sov. Kuban'", 1957, 62-74

Abstract : As the result of studies made since 1931 of the I.V. Michurin varieties at the Maykop Experimental Station, the most promising proved to be: Bessemyanka Michurinskaya and Pepin Shafrannyy. Deserving attention are Belfler-Kitayka, Kandil'-Kitayka, Pepin-Kitayka and Shafran-Kitayka which were accepted for the government testing in the southern zone of RSFSR.

Card 1/1

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58719

prunes were selected. Brief descriptions of the best varieties and of the hybrids are given. -- A. M. Shevchenko

NESTEROV, Ya.S.

Dormancy in fruit trees. Dokl.AN SSSR 108 no.4:738-741 Je '56.
(MLRA 9:9)

1.Maykopskaya opytnaya stantsiya Vsesoyuznogo instituta rasteniyevodstva. Predstavleno akademikom A.L.Kursanovym.
(Fruit trees)

NESTEROV, Ya.S., kandidat biologicheskikh nauk.

Role of maternal pollen in intervarietal pollination of apple trees. Agrobiologiia no.4:132-135 Jl-Ag '56. (MLRA 9:10)

1.Maykopskaya opytnaya stantsiya Vsesoyuznogo instituta rasteniyevodstva.

(Apple) (Fertilization of plants)

NESTEROV, Ya.S., kandidat sel'skokhozyzystvennykh nauk.

Clonal variation in fruit trees. Agrobiologiia no.3:112-113 My-Je '56. (MLRA 9:9)

1.Maykopskaya opytnaya stantsiya Vsesoyuznogo instituta rasteniyevodstva.
(Fruit trees) (Botany--Variation)

NESTEROV, Ya.S.

Proliferation of vegetative and reproductive runners from tissue of compound fruit of strawberries. Probl.bot.no.2:327-328 '55.
(Strawberries) (MLRA 8:11)

1. [illegible]TEROV, Ya. S.

2. USSR (600)

4. Krasnodar Territory - Apple

7. Michurin varieties of apples in Krasnodar Territory. Sad i og. no.11. 1952

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

NESTEROV, YA. S.

Fruit Culture

Placing varieties of apple trees in the orchard., Sad i og., no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.

GORBACHEV, S. [deceased]; NIKITIN, N.; NESTEROV, Ya.

Method of working out standards for forging and stamping work.
Sots. trud 6 no. 2:91-97 F '61. (MIRA 14:2)
(Forge shops--Production standards)

ACC NR: AP7000518

interval for all other particles is given. It is noted that the cited results are preliminary, since they are obtained from a small part of

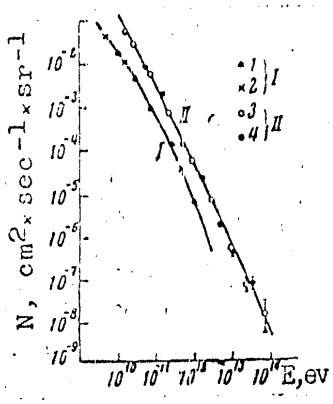


Fig. 1. Energy spectra of primary protons (I) and all other particles (II)

1, 3 - First half of the equipment; 2, 4 - second half of the equipment.

the obtained data. Orig. art. has: 2 figures. [WA-75] [IV]

SUB CODE: 04, 20/ SUBM DATE: none/ ORIG REF: 005/ OTH REF: 003

Card 2/2

ACC NR: AP7000518 SOURCE CODE: UR/0048/66/030/011/1760/1762

AUTHOR: Grigorov, N. G.; Kovrizhnykh, O. M.; Nesterov, V. Ye.; Rapoport, I. D.; Savenko, I. A.; Skuridin, G. A.; Titenkov, A. F.

ORG: none

TITLE: Measurement of the energy spectrum of primary cosmic rays with energies in the region of 10^{10}—10^{14} ev using the Proton-1 satellite [Paper presented at All-Union Conference on Physics of Cosmic Rays held in Moscow from 15 to 20 November 1965]

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 11, 1966, 1760-1762.

TOPIC TAGS: cosmic radiation energy, cosmic radiation, cosmic ray measurement, artificial earth satellite, primary cosmic ray, meteorologic satellite, particle spectrum

ABSTRACT: The energy spectrum of primary cosmic rays with energies between 10^{10} and 10^{14} ev was measured using equipment mounted on the Proton-1 satellite. The ionization calorimeter method of measurement was employed using SEZ-14 equipment. Spectra of protons with energies between 5×10^{9}—10^{12} ev and of all particles (protons and heavier particles) with energies between 2×10^{10}—10^{14} ev were measured, although the charge of particles with energies between $2 \cdot 10^{10}$ and 10^{14} ev was not determined. The energy spectrum (see Fig. 1) obtained from data taken during a 36-hour period for protons and a 50-hour

Card 1/2

ACC NR: AP7000522

single Geiger counter averaged for the Kosmos-4 and Kosmos-7 satellites. This comparison indicates qualitative agreement with the author's previous measurements. Orig. art. has: 1 figure. [WA-75] [IV]

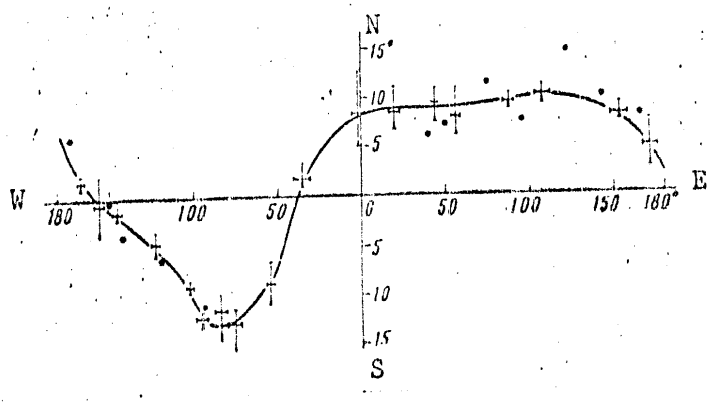


Fig. 1. Geographic location of minimum-intensity cosmic radiation points

Dots - double coincidence equipment; solid line - single Geiger counter.

SUB CODE: 04/18, 20/ SUBM DATE: none/ ORIG REF: 004

Card 2/2

ACC NR: AP7000522 SOURCE CODE: UR/0048/66/030/011/1771/1772

AUTHOR: Basilova, R. N.; Volodichev, N. N.; Nesterov, V. Ye.; Savenko, I. A.

ORG: none

TITLE: Determination of the position of the cosmic ray equator based on results of measurements made with the Proton-1 satellite /Paper presented at All-Union Conference on Physics of Cosmic Rays held in Moscow from 15 to 20 November 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 11, 1966, 1771-1772

TOPIC TAGS: cosmic ray intensity, cosmic ray measurement, cosmic ray, [illegible] satellite, scintillation counter

ABSTRACT: Directional equipment for registration of cosmic particles was mounted on the Proton-1 satellite. The equipment consisted of two SEZ-1 scintillation counters capable of recording energy spectra of protons and cosmic ray nuclei with energies from 0.2 to 30 Bev. These counters, when used in a double coincident scheme are also capable of measuring protons and electrons with energies higher than 100 and 20 Mev at a solid angle of ~3 sterad. This double coincidence scheme, which can register particles incident from opposite directions, was chosen to record the positions of points of minimum cosmic ray intensity. The results (see Fig. 1) are compared with the results obtained with a

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