

FMDOSEYEV, A.P.

Using the spring index of soil soaking depth as a prognostic
characteristic. Meteor. i gidrol. no. 3:40-44 Nr '57. (MIRA 10:5)
(Soil moisture)

Category : CULTIVATED PLANTS. GRAINS
Abs. Jour. : REF ZHUR.BIOL.,21,1958, NO.95944
Author : Fedoseyev, A.P.; Beloborodova, G.G.
Institut. : KAZAKH AGRIC. Hydrometeorological Inst.
Title : Agricultural Climatic Conditions for Corn Cultivation in the Northern Half of Kazakhstan
Orig. Pub. : Tr. Kazakhsk. n.-i. gidrometeorol. in-ta, 1957, vyp. 8, 3-27
Abstract : There is a presentation of the agricultural climatic calculations for the individual terrains of Kazakhstan and a preliminary evaluation of the climatic resources found in the northern half of the republic in regard to corn raising. The favorable features of meteorological conditions for corn growing have been determined according to indices of moisture and according to the amount of heat during each year individually. Observational material for 20-40 years has been used.
Card: 1/2

34

Country : M
Category : CULTIVATED PLANTS. GRAINS
Abs. Jour. : REF ZHUR.BIOL.,21,1958, NO-95944
Author :
Instit. :
Title :
Orig. Pub. :
Abstract : The observations have been computed and the deductions are summarized in a number of tables, and charts have been drafted from this data. The author classifies among the agrotechnical measures improving the heat supply of the corn: deep plowing without a moldboard, vernalization and air-warming of the seeds.--Ye.I. Saks

Card: 2/2

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 12, 1958, 53834

Author : Borun, S.S.) Fedoseyev, A.P.

Inst : Kazakh Scientific Research, Hydrometeorological Institute

Title : Climatic Conditions during Spring and Measures for Protecting the Vineyards from Frosts in the Foothills of Trans-Ili Ala-Tau

Orig Pub : Tr. Kazakhsk. n.-i. gidrometeorolog, in-ta, 1957, vyp. 8, 57-63

Abstract : This article describes the study of the meteorological conditions during the spring period at a number of points in the foothills of the Trans-Ili Ala-Tau. The dates of beginning the opening of the vineyards can change, depending on the weather conditions, within the range of 2-3 ten day periods. The day of a consistent

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USSR/Cultivated Plants - Fruits. Berries.

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Abs Jour : Ref Zhur Biol., No 12, 1958, 53834

passing of the average daily temperature over 5° is taken as the conventional date for the start of the opening of the vineyards. This date is determined for each year on the basis of the data of many years and of a long range forecast, and is made more accurate by short range (weekly, 10-days) forecasts. The probability of the frost reaching to -8° does not exceed 1 occurrence in 10 years, and to -3.5° (after the opening of the buds) the probability is 15-30%. In order to preserve the vineyards from injuries, it is recommended to delay the beginning of the vegetation of the grape plant by deepening the root system and by measures retarding the warming-through of the soil (deep spring watering, etc.). The aggregate sum of the active temperatures in delaying the vegetation is still sufficient for the ripening of the grape varieties under cultivation ($2900-3350^{\circ}$). -- V.V. Arkhangel'skaya

Card 2/2

- 138 -

L

Country : USSR
Category : Meadow Cultivation.
Abs. Jour. : Ref Zhur-Biologiya, No. 1, 1959, No. 1516
Author : Fedoseyev, A.P.
Institut. : Not given
Title : The Average Perennial Periods of Large-Scale Blossoming of Pasture Grasses in Different Grasslands of Kazakhstan.
Orig Pub. : Geogr. sb., 9, 1957, 74-78
Abstract : By processing the data of phenological observations made by the meteorological stations in Kazakhstan on the large-scale development of the basic pasture grasses the following constants have been ascertained: the sums of effective temperatures during the period from the renewal of vegetation to spiking and from the renewal of vegetation to flowering. A forecast is proposed for the the time the individual stages begin by means of a conven-

Card: 1/2

GOL'TSBERG, I.A., doktor geogr.nauk; ARKHIPOVA, Ye.P., kand.geogr.nauk;
GLEBOVA, M.Ya.; ROMANOVA, Ye.N.; SMIRNOVA, N.V.; VORONTSOV, P.A.,
kand.fiz.-mat.nauk; BARASHKOVA, Ye.P., mladshiy nauchnyy sotrudnik;
GEDEONOV, A.D.; GOLUBOVA, T.A.; MISHCHENKO, Z.A.; FEDOSEYEV, A.P.,
kand.sel'skokhoz.nauk; BELOBORODOVA, G.G., mladshiy nauchnyy so-
trudnik; PISAREVSKAYA, V.D., red.; VOLKOV, N.V., tekhn.red.

[Microclimate of the northern part of the Kazakh hills] Mikroklimat
severnoi chasti Kazakhskogo melkosopohnika. Pod red. I.A. Gol'ts-
berg. Leningrad, Gidrometeor. izd-vo, 1958. 206 p. (MIRA 12:3)

1. Leningrad. Glavnaya geofizicheskaya observatoriya. 2. Sotrudnik
Glavnoy geofizicheskoy observatorii im. A.I. Voyeykova (for Gol'ts-
berg, Arkhipova, Glebova, Romanova, Smirnova, Vorontsov, Barashkova,
Gedeonov, Golubova, Mishchenko). 3. Sotrudnik Kazakhskogo nauchno-
issledovatel'skogo gidrometeorologicheskogo instituta (for Fedoseyev,
Beloborodova).

(Kazakhstan--Microclimatology)

BELOBORODOVA, G.G.; KONYUKHOV, N.A.; SAMOKHVALOV, N.F.; PEDOSEYEV, A.P.

Brief agroclimatic characteristics of the Kazakh S.S.R. by the
republic's natural farming zones. Trudy KazNIGMI no.11:5-29 '59.
(MIRA 13:6)

(Kazakgstan--Agriculture)

FEDOSEYEV, A.P.

Climatic conditions for winter pasturing of sheep in Kazakhstan.
Trudy KazNIGMI no.13:3-11 '59. (MIRA 13:8)
(Kazakhstan--Sheep--Feeding and feeds)
(Pastures and meadows)
(Meteorology, Agricultural)

FEDOSEYEV, A.P.

Determining the moisture content of soil on large areas by the
penetration depth of precipitation. Trudy KANIGMI no.13:
45-65 '59. (MIRA 13:8)
(Balkhash region--Soil moisture)

FEDOSEYEV, A.P.

Relation between soil moisture and the relief of the terrain.
Trudy KazNIGMI no.13:66-88 '59. (MIRA 13:8)
(Kazakhstan--Soil moisture)

FEDOSEYEV, A.P.

Method of forecasting agrometeorological conditions influencing
yields of meadow and pasture vegetation. Meteor. i gidrol. no.8:
51-54 Ag '60. (MIRA 13:8)
(Crops and climate)
(Pastures and meadows)

FEDOSEYEV, A.P.; NECHAYEVA, N.T.

Some characteristics of the formation of the yield of pasture
vegetation in the southeastern Kara Kum in relation to meteore-
ological conditions. Trudy Inst. bot. AN Turk. SSR 7:21-39 '62.
(MIRA 17:3)

FEDOSEYEV, A.P.

Determining the representativeness of soil moisture data by the method of surveying the depth of wetting. Meteor. i gidrol. no.9:36-39 S '62. (MIRA 15:8)

1. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskii institut,
(Balkhash Lake region--Soil moisture)

FEDOSEYEV, A.P.; BELBORODOVA G.C.

Calculation of the reserves of available moisture in the soil on the
pastures of Kazakhstan. Trudy KazNIOMI no.24:38-48 '65.

(MIRA 18:10)

FEDOSEYEV, A. S.

FEDOSEYEV, A. S.

DIE SCHOPFERISCHE ROLLE DES SOWJETSTAATES UND DES SOWJETRECHTS BEI DER ERRICHTUNG DER SOZIALISTISCHEN UND DER KOMMUNISTISCHEN GESELLSCHAFT. BERLIN, KULTUR UND FORTSCHRITT, 1954.

297 P. (GESELLSCHAFT FUR DEUTSCH-SOWJETISCHE FREUNDSCHAFT: 38. BEIHEFT ZUR "SOWJETWISSENSCHAFT)

TRANSLATION FROM THE RUSSIAN, "TVORCHESKAYA ROL' SOVETSKOGO GOSUDARSTVA I PRAVA V POSTROYENII SOTSIALISTICHESKOGO I KOMMUNISTICHESKOGO OBSHCHESTVA", MOSCOW, 1951.
BIBLIOGRAPHICAL FOOTNOTES.

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tekhnicheskikh nauk; ~~FEDOSBYEV, A.V., inzhener~~

Results of tests of large-capacity tank cars. Tekh.zhel.dor. 7
no.1:30-31 Ja '48. (MIRA 8:11)
(Tank cars)

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Forces and acceleration arising from the impact of all-metal
passenger cars. Trudy TSNII MPS no.105:93-99 '55. (MLRA 9:2)
(Railroads--Cars) (Impact)

BORODAY, S.M., kand.tekhn.nauk; FEDOSEYEV, A.V., inzh.

Ways of improving the design of six-axle gondola cars.
21 no.7:41-44 '62.

Vest.TSNIIMPS
(MIRA 1512)

(Railroads—Freight cars)

FEYDOS'YEV, B.

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FEDCSEYEV, B., brigadir

Efficient work in a friendly atmosphere. Grazhd.av. 12
no.8:6-7 Ag '55. (MIRA 15:8)

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(Airports--Management)

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KIRKHENSHTEYN, A., akademik, Geroy Sotsialisticheskogo Truda; KAL'NIN'SH, A. [Kalniņš A.], akademik; STRADIN'SH, P. [Stradiņš, P.], akademik; SUDRABKALN, Yan [Sudrabkalns, Jānis], narodnyy poet Latvyskoy SSR MELBARDIS, K., khudozhnik; LAPIN'SH, A. [Lapiņš, A.], narodnyy khudozhnik Latvyskoy SSR; YUROVSKIY, Yu., narodnyy artist SSSR; AVOTS, A., fotolyubitel'; VARDAUNIS, E., khudozhnik, zaslužhenny deyatel' iskusstv Latvyskoy SSR; GAYLIS, V., kinooperator; RIDZENIYEKS, V., fotograf; KAL'NYN'SH, E. [Kalniņš, E.]; LOGANSON, R. [Iohanson, R.], stareyshiy master khudozhestvennoy fotografii; RIEKSTS, Ya. [Rieksts, J.], fotograf; LERKH, Yu.; ~~FEDOSEYEV, B.~~ fotograf; REYKHMAN, E., zaslužhenny deyatel' kul'tury Latvyskoy SSR; GROBMAN, Ya. [Grobman, J.], fotograf; OZOLS, Ya. [Ozols, J.], fotograf; TIKNUS, B., fotograf; FADEYEV, Ye., fotograf; RAKE, I., fotograf; HERZTIS, A., fotograf; RAKE, K., fotograf; UPIT, V., fotograf; SHADKHAN, M., fotolyubitel'; RITERS, G., fotolyubitel'.

Organize a society of Soviet photographers! Sov.foto 18 no.4:77 Ap '58.
(MIRA 11:6)

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GLADKOV, V.A., red.; SYCHEVA, V.A., tekhn. red.

[Improving boring and blasting operations at the Olenegorsk
Mine] Sovershenstvovanie burovzryvnykh rabot na Olenegorskom
rudnike. Murmansk, Murmanskoe knizhnoe izd-vo, 1962. 77 p.
(MIRA 16:10)

(Olenegorsk region--Mining engineering)

BERLIN, A.A.; STUPEN', L.V.; FEDOSK'EV, B.I.; YANOVSKIY, D.M.

Graft copolymerization. Part 6: Fractionation of the products
from the graft polymerization of vinyl chloride with the
butyl methacrylate-methacrylic acid copolymer. Vysokom.
soed. 2 no.8:1227-1233 Ag '60. (MIRA 13:9)
(Ethylene) (Methacrylic acid)

S/191/63/000/001/009/017
B101/B186

AUTHORS: Fedoseyev, B. I., Popova, Z. V., Yanovskiy, D. M.
TITLE: Dependence of the color of transparent products from vinyl chloride copolymers on some conditions of copolymerization
PERIODICAL: Plasticheskiye massy, no. 1, 1963, 35-37

TEXT: The discoloration of the vinyl chloride - methyl acrylate copolymer under different conditions of copolymerization and the effect of acetylene impurities and oxygen on the transparency have been studied. Copolymerization was performed at 53°C, the monomer : water weight ratio being 1 : 2, the content of methyl acrylate 20%, and ammonium persulfate (0.4% of the monomer weight) being used as initiator. When all the vinyl chloride and methyl acrylate were filled into the autoclave at the same time an inhomogeneous product (I) resulted because the components had different copolymerization constants. A homogeneous copolymer (II) was formed by adding the methyl acrylate to the vinyl chloride gradually. The amount of HCl liberated at 175°C in an air current during 3 hrs was

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Dependence of the color of ...

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measured and the difference ΔK of the extinction coefficients was determined on films of 0.5 mm thickness in the range of 432-726 m μ . Results: Copolymer II was much more stable than I, only 4.7 mg HCl being separated per 1 g copolymer whereas I yielded 7.4 g HCl. ΔK was 0.14 for II, and 0.55 for I. Besides this, II showed opalescence, its transparency decreased with increasing rolling time and temperature: ΔK was 0.652 after 2 hrs rolling at 115°C, and 0.683 after 4 hrs; at 125°C, the values were 0.915 and 0.941. A content of 0.3% acetylene in the vinyl chloride reduced the transparency owing to side reactions caused by the acetylene, such as formation of double bonds. The presence of oxygen in the aqueous phase during copolymerization reduced the transparency by formation of oxygen-containing groups which favored the thermal dehydrochlorination. Therefore copolymerization should be performed after removing the air by evacuation or bubbling with N₂. There are 3 tables.

Card 2/2

L 13546-63

EPR/EWF(j)/EPF(c)/E-T(m)/BDS/ES(s)-2 AFPTC/ASD/SSD Ps-4/

PC-4/Pr-4/Pt-4

RM/WM

ACCESSION NR: AP3000690

8/0190/63/005/005/0659/0662

AUTHOR: Fedoseyev, B. I.; Popova, Z. V.; Yanovskiy, D. M.

79

TITLE: Intrinsic stability of vinylchloride polymers and copolymers

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 5, no. 5, 1963, 659-662

TOPIC TAGS: intrinsic stability, vinylchloride polymers, thermal degradation, stabilizers

ABSTRACT: A study was conducted on the effect of compounds with mobile hydrogen at the carbon atom, such as isopropylbenzene, on the thermal stability of polyvinylchloride and the vinyl chloride--methyl methacrylate copolymer. Their stability was estimated by measuring the temperature of decomposition, the induction period leading to the evolution of HCl at 175C, and the yield rate of HCl at 175C during a 3-hour period. The addition of isopropylbenzene or similar compounds at the start of the polymerization reaction yielded products with an increased thermostability, while their incorporation into the finished product did not affect the degradation temperature. It caused only a significant drop in the yield of HCl. It is suggested that these agents perform in monomers by reducing in the resulting polymer the concentration of labile groups, while in polymers as such they seem to exert an inhibiting effect on thermal degradation. Orig. art. has 1 formula, and 3

Card 1/2/

KRONMAN, A.G.; FEDOSEYEV, B.I.; YANOVSKIY, D.M.

Effect of formula and engineering factors in the production of vinyl chloride and vinyl acetate copolymer on the sound quality of phonorecords. Plast. massy no.12:58-61 '64.

(MIRA 18:3)

KROHMAN, A.G.; FFLOSEYEV, B.I.; YANOVSKIY, D.M.

Use of mixtures of protective colloids for regulating the
granulometric composition of vinyl chloride copolymers.

Plast. massy no.5:68-70 '65.

(MIRA 13:6)

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26458 i khapanisev, I. V. vtoraya ochistka k samokhcdnomu kombaynu S-4 Sel'khoz mashina, 19
1949, No. 8, s. 10-13

SO: LETOPIS' NO. 35, 1949

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"Study of the Operation of Cylindrical Threshers in Grain Combines."
Sub 2 Mar 51, Moscow Inst for the Mechanization and Electrification
of Agriculture imeni V. M. Molotov

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Moscow during 1951.

SO: Sum. No. 480, 9 May 55

FEDOSEYEV, B. V.

Agricultural Machinery

New clover-hulling attachments for threshing machines. Korm. baza 2 no. 8, '51

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FILIPPOV, A. I., FEDOSEYEV, B. V.

Seed Industry

Mechanized harvest of grass seeds. Korm.basa 3, No. 6, 1952

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

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"Harvesting Seeds of Perennial Grasses," Kolkh. proizv. 12, No.7, 1952

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Harvesting grass seed plants with combines
khoziaistva SSSR, 1955

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YEDOSHIYEV, B.Y.; BASOV, V.I., inzhener.

Mechanized harvesting of peas and vetch. Zemledelie 4 no.7:85-95 J1
'56. (MLRA 9:9)
(Vetch) (Field pea) (Harvesting machinery)

FEDOSEYEV, B.V., kandidat tekhnicheskikh nauk.

Harvesting unevenly ripening crops. Zemledelie 4 no.7:108-109
Jl '56. (Harvesting) (MIRA 9:9)

YEDOSEYEV, B.V., kandidat tekhnicheskikh nauk; KHAPANTSEV, I.V., inzhener.

Clover hulling and cleaning attachment for the CO⁴ self-propelling
combine. Sel'khoz mashina no.6:10-12 Je '56. (MLRA 9:8)
(Combines (Agricultural Machinery)) (Clover)

FEDOSEYEV, B.V., kandidat tekhnicheskikh nauk; SHIBAYEV, P.N., kandidat sel'skokhoyaystvennykh nauk.

Harvesting in separate stages in districts of the non-Chernozem
zone. Zemledelie 5 no.7:40-46 J1 '57. (MLRA 10:8)
(Grain--Harvesting)

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O.M.; FEDOSHIYEV, B.V.; TULIN, N.S., red.; GOR'KOVA, Z.D., tekhn.
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[Growing red clover] Kul'tura krasnogo klevera. Moskva, Gos. izd-
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(Clover)

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Machinery for the over-all mechanization of field work in the
central districts outside the Chernozem belt. Zemledelie 6 no.5:
7-18 My '58. (MIRA 11:6)

(Agricultural machinery)

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Investigating clover hulling machinery. Mekh.i elek.sots.sel'khoz.
16 no.5:26-30 '58. (MIRA 11:11)

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Vil'yamsa (for Grinchuk). 2. Zonal'nyy nauchno-issledovatel'skiy
institut semledeliya nechernozemnoy polosy (for Fedoseyev). 3. Vse-
soyuznyy nauchno-issledovatel'skiy institut mekhanizatsii sel'skogo
khozaystva (for Filippov).

(Agricultural machinery) (Clover)

FEDOSEYEV, B.V., kand. tekhn. nauk; ZHURKIN, V.K., inzh.; NIKOLAYEV,
G.S., inzh.

Investigating the air-cleaning of legume seeds in a vertical
channel. Trakt. i sel'khoz mash. 33 no. 11:35-37 N '63.

(MIRA 17:9)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva
tsentral'nykh rayonov nechernozemnoy zony.

FEDOSEYEV, B.V.; KOVALEV, A.T.

Studying the work of puller-type pea harvesting machines. Trakt.
i sel'khoz mash. no.11:27-29 N '64. (MIRA 18:1)

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tsentral'nykh rayonov nechernozemnoy zony.

FEDOSEYEV, Dmitriy Nikolayevich, kandidat tekhnicheskikh nauk; AKOPYAN, A.A., inzhener, retsenzent; BULOVSIIY, P.I., kandidat tekhnicheskikh nauk, dotsent, redaktor; LEYKINA, T.L., redaktor izdatel'stva; SPERANSKAYA, O.V., tekhnicheskii redaktor

[Planning technological processes of assembling apparatus] Proektirovanie tekhnologicheskikh protsessov sborki priborov. Moskva, Gos. nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 245 p. (MLBA 10:9)
(Machinery industry)

8(3)6(4)

PHASE I BOOK EXPLOITATION

SOV/2749

Fedoseyev, Dmitriy Nikolayevich

Tekhnologiya izgotovleniya silovykh transformatorov i drossel'ey, primenyayemykh v radiotekhnike (Technology of the Manufacture of Power Transformers and Reactors Used in Radio Engineering) Moscow, Gosenergoizdat, 1959. 155 p. 9,500 copies printed.

Ed.: V. A. Zhukov; Tech. Ed.: Ye. M. Soboleva.

PURPOSE: The book is intended for technical personnel in the radio engineering industry and for teachers and students of radio engineering and instrument-making vuzes. A simplified presentation of theoretical problems makes it possible to use the book for training skilled personnel in related trades.

COVERAGE: The book describes present-day assembling operations in the manufacture of low-frequency power transformers and reactors with magnetic circuits made from electrical sheet steel. Special attention is devoted to methods of control of transformer and reactor manufacture. Source material used in the book summarizes current manufacturing practices and includes primarily

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Technology of the Manufacture (Cont.)

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the standardized group of transformers and reactors presented by the Standards' Department of the Ministry of the Radio Engineering Industry. Some typical technological processes in the production of components and parts of transformers and reactors are not included in this book as they are adequately covered in existing technical literature. The book was written in cooperation with a group of coworkers at the Leningradskiy institut aviatsionnogo priborostroyeniya (Leningrad Institute of Aircraft Instrument Making). Ch. I, II and III were written by D. N. Fedoseyev, A. S. Kruglov, A. N. Lukichev and A. K. Monakov, Ch. IV was written by F. I. Plavinskiy. The author thanks the reviewers N. E. Angelevich, and G. Kh. Girshman and also the editor, V. A. Zhukov, for their valuable suggestions made during the preparation of the book. There are 23 Soviet references (including 1 translation).

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Bibliography

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BUKLER, Veniamin Osherovich; RABINOVICH, Yuriy Izrsilevich; ANGELEVICH,
N.M., inzh., retsenzent; GIRSHMAN, G.Kh., inzh., retsenzent;
LOMONOSOV, S.Ya., inzh., retsenzent; RUBINCHIK, N.M., inzh.,
retsenzent; FEDOSHEV, D.N., red.; ZHITNIKOVA, O.S., tekhn.red.

[Assembling of radio equipment] Sborka radioapparatury. Moskva.
Gos.energ.isd-vo, 1960. 347 p. (MIRA 13:12)
(Radio--Equipment and supplies)

FEDOSEYEV, Daitriy Nikolayevich, kand. tekhn. nauk; Primalni uchastiye:
MONAKOV, A.K., inzh.; LUKICHEV, A.N., inzh.; BULOVSKIY, P.I.,
doktor tekhn. nauk, retsentsent; DENINA, I.P., red.izd-va;
SHCHETININA, L.V., tekhn. red.

[Designing technological processes for the assembly of
instruments] Proektirovanie tekhnologicheskikh protsessov stor-
ki priborov. Izd.2., perer. i dop. Moskva, Mashgis, 1963. 286 p.
(MIRA 16:5)

(Instrument industry) (Assembly-line methods)

FEDOSEYEV, D. V.

Ukrayins'kyi fizichnyy zhurnal, v. 8, no. 4, Apr 1963, 488-500.
S/185/63/008/004/015/015

15

A scientific conference devoted to problems of evaporation, combustion, and gas dynamics of dispersed systems was held at Odessa State University imeni I. I. Mechnikov from 1 to 8 October 1962.

Sixty-five papers were presented, 24 of which dealt with the theory and practice of production and stability of aerosols and the effect on these processes of various physicochemical factors; the other 31 dealt with working processes in combustion chambers of various power plants. Some of the titles were "Investigating oxidation processes of high hydrogenous fuels by oxygen from compressed air," S. S. Kramarenko; "Burning of metal suspension in hydrocarbon fuels," D. I. Polishchuk, L. P. Latonina, and V. L. Yankevich; and "Experimental investigation of two-phase flow in axially-symmetrical nozzles," G. A. Komov. Included also were discussions of the methods of solving equations of dissociating gas flow in ducts and gas dynamic calculations for jet engines, G. A. Varshavsky, E. Ya. Guber, and A. P. Kisel'ov; the formation of plane shock waves in shock tubes and passage of shock waves through a flame front, D. V. Fedoseyev, G. D. Sadamandr, and I. K. Sevast'yanova; experimental results on the flow of combustion products of a methane-oxygen mixture around cambered surfaces with diffraction of detonation waves, L. G. Gvozd'ova; the stability of a steady-state flame front S. K. Aslanov; the relationship between the flame and the diameter of a burning drop, V. O. Fedoseyev; and theoretical and experimental investigation of burning of spherical metal particles, by L. A. Klyachko.

(AS)

Card 2/2

L 23875-66 EWT(d)/ENP(v)/ENP(k)/ENP(h)/ENP(i)

ACC NR: AP6009914

(A)

SOURCE CODE: UR/0413/66/000/004/0112/0112

AUTHOR: Drozdovskiy, G. P.; Kolominov, V. P.; Orlov, S. F.; Magirovskiy, N. P.; Fedoseyev, O. V.

27
B

ORG: none

TITLE: A machine for felling and hauling trees without the use of a choker. Class 45, No. 179112 [announced by Leningrad "Order of Lenin" Forestry-Engineering Academy imeni S. M. Kirov (Leningradskaya Ordena Lenina lesotekhnicheskaya akademiya); Omega Tractor Plant (Onezhskiy traktornyy zavod)]

SOURCE: Izobreteniya, promyshlennyy obraztsy, tovarnyye znaki, no. 4, 1966, 112

TOPIC TAGS: forestry, transportation equipment, woodworking machinery

ABSTRACT: This Author's Certificate introduces: 1. A machine for felling and hauling trees without the use of a choker. The unit includes a self-propelled base with a frame which rotates in the vertical longitudinal plane of the machine and carries an extensible roller arm. Also mounted on the base are a receiving and loading device with collapsible packing arm, a cutting mechanism, a winch, a drive, and a device for fastening the logs to the receiving beam. This latter device contains a constantly closed loop of cable fastened at the ends to the winch drum with a mechanism for keeping the loop separated. In order to increase productivity, simplify control of the

UDC: 634.0.36:629.114.2

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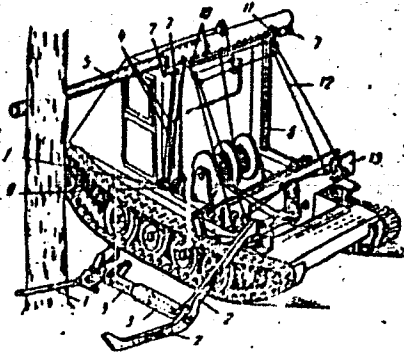
Card 1/3

L 23875-66

ACC NR: AP6009914

machine and cut logs by various methods, the cutting mechanism is fastened to the packing arm of the receiving and loading device by a telescoping bar which may be ro-

1--cutting mechanism; 2--packing arm; 3--telescoping bar; 4--lengths of cable; 5--roller arm; 6--rotating frame; 7--pulleys; 8--drive for the roller arm extension mechanism; 9--drive for the cable loop separation mechanism; 10--cable guys; 11--guide rings; 12--cable loop; 13--receiving beam.



tated around its longitudinal axis. The mechanism for extension of the roller arm is made with lengths of cable fastened to the roller arm with the other ends passed through pulleys mounted on the upper cross beam of the rotating frame. These cables are driven by a unit which is connected with the drive for the mechanism which separates the cable loop. This mechanism is made with cable guys which are also fastened at one end to the drive while the other ends are passed through guide rings mounted on the upper cross beam of the rotating frame and freely connected to the cable loop of the device for fastening the logs to the receiving beam. 2. A modification of this machine in which the operation of the mechanism for extension of the roller arm is synchroniz-

Card 2/3

L 23875-66

ACC NR, AP6009914

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ed with that of the mechanism for separation of the cable loop by making their common drive in the form of two drums. One of these drums is rigidly fastened to the drive shaft while the other is connected to this shaft by a slip clutch.

SUB CODE: 02,13/ SUBM DATE: 29Mar65/ ORIG REF: 000/ OTH REF: 000

Card 3/3 *ddc*

EPR/EPA(b)/EPF(c)/EPF(n)-2/EWT(1)/BDS AEDC/AFFTC/AFMDC/ASD/

SSE Pd-4/Pr-4/Pu-4/Ps-4 WW

ACCESSION NR: AP3004738

S/0170/63/006/008/0041/0044

AUTHOR: Fedoseyev, D. V.; Shteyman, S. V.

77

TITLE: Flow with friction and heat transfer in a conical nozzle

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 8, 1963, 41-44

TOPIC TAGS: conical nozzle, heat transfer, supersonic flow, stagnation temperature, stagnation pressure

ABSTRACT: An analysis of supersonic flow in a conical nozzle is made which takes into account both friction and heat transfer. The flow is assumed to be one-dimensional; i.e., the value of the tangent of the angle of inclination of the nozzle contour is small, and the stagnation-temperature recovery factor in the boundary layer is assumed to be unity. Equations of motion, continuity, and heat transfer are used as the basis for establishing formulas for calculating the flow parameters at any cross section, i.e., velocity, pressure, density, temperature, impulse, and stagnation-pressure recovery factor. Orig. art. has: 11 formulas.

ASSOCIATION: none

Card 1/1

VARSHAVSKIY, G.A.; GERMEYER, Ye.M.; FEDOSEYEV, D.V.

Some two dimensional problems of heat conductivity under mixed boundary conditions. Inzh.-fiz. zhur. 8 no.6:754-760 Je '65. (MIRA 18:7)

BOTVINKIN, O.K., doktor tekhn. nauk; KULIKOVA, Ye.N., inzh.; RYABOV, V.A., kand. tekhn. nauk; FEDOSEYEV, D.V., kand. tekhn. nauk

Using the statistical theory to estimate the strength of window glass.
Stek. i ker. 22 no.9:14-17 S '65. (MIRA 18:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut stekla (for Botvinkin, Kulikova). 2. Institut fizicheskoy khimii AN SSSR (for Ryabov, Fedoseyev).

137149-66 EWP(e)/EWT(m) MH

ACC NR: AP6018057

(A)

SOURCE CODE: UR/0020/66/168/003/0567/0568

AUTHOR: Ryabov, V. A.; Fedoseyev, D. V.ORG: Institute of Physical Chemistry, Academy of Sciences, SSSR (Institut fizicheskoy khimii Akademii nauk SSSR)TITLE: Statistical theory of the strength of glass¹⁵

SOURCE: AN SSSR. Doklady, v. 168, no. 3, 1966, 567-568

TOPIC TAGS: glass property, statistic analysis, DURABILITY, HARDNESS

ABSTRACT: The authors report the results of tests of approximately 11,000 samples of composition $\text{SiO}_2 \sim 72\%$, $\text{Na}_2\text{O} \sim 15\%$, $\text{MgO} \sim 3\%$, $\text{CaO} \sim 8\%$, and $\text{Al}_2\text{O}_3 \sim 1.5\%$. Some samples were hardened by removing the defect layer from the surface with foamed hydrofluoric acid. The samples were in the form of squares 60 mm on each side of varying thicknesses. The test procedure is briefly described. The results show that the hardened glass has two maxima, one at approximately the same value as the unhardened glass (30 kg/mm^2), and the other at approximately 300 kg/mm^2 . The authors state that an earlier explanation (J. Cornelissen et al., Technical Papers Sixth Intern. Congr. on Glass, Washington, July, 1962) attributing the two maxima to the presence of two types of surface defects, disagrees with published results and with their own results, since the surface treatment with acid, which removes the surface defects, actually strengthens the glass. It is concluded that by producing glass without surface defects and by keeping the interior of the glass in the liquid state it would be possible to in-

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Card 1/2

UDC: 539.4.01: 666.01

L 37149-66

ACC NR: AP6018057

crease greatly the strength of glass. The authors thank AN SSSR Corresponding Member B. V. Deryagin for important remarks. This report was presented by Academician S. A. Khristianovich 24 July 1965. Orig. art. has: 1 figure and 3 formulas.

SUB CODE://,20/ SUBM DATE: 13Jul65/ ORIG REF: 003/ OTH REF: 003

Card 2/2 of .

L 06233-67 EWP(e)/EWT(m) WH
ACC NR: AP6030007

SOURCE CODE: UR/0020/66/169/005/1034/1036

AUTHOR: Galín, L. A. (Corresponding member AN SSSR); Ryabov, V. A.; Fedoseyev, D. V.;
Cherepanov, G. P.

ORG: Institute of Problems of Mechanics, Academy of Sciences SSSR (Institut problem mekhaniki Akademii nauk SSSR); Institute of Physical Chemistry, Academy of Sciences SSSR (Institut fizicheskoy khimii Akademii nauk SSSR)

TITLE: Failure in high strength glass ¹⁵

SOURCE: AN SSSR. Doklady, v. 169, no. 5, 1966, 1034-1036

TOPIC TAGS: glass property, Young modulus, hydrofluoric acid

ABSTRACT: The failure of glass due to internal defects was investigated using test samples of window glass with dimensions 60 × 60 mm and a thickness of 1.7-3.2 mm. The glass had approximately the following chemical composition: SiO₂--72%, Na₂O--15%, MgO--3%, CaO--8%, Al₂O₃--1.5-2%. Surface defects to a depth of 100 microns were removed by treating the glass in foaming hydrofluoric acid. The samples were tested for symmetric flexural strength using a maximum load of 10,000 kg-wt. The test samples were supported in a square frame covered with soft insulation. Typical parameters of the glass samples were as follows: Young's modulus of $6 \cdot 10^7$ kg-wt/cm², thickness of 0.2 cm, a breaking force of approximately 500 kg-wt, and a characteristic transverse

29
B

UDC: 539.8

Card 1/2

L-06233-67

ACC NR: AP6030007

dimension of approximately $5 \cdot 10^{-3}$ cm for the needle fragments. The experiments showed that the development of cracks leading to the failure of high strength glass samples was nonstationary and corresponded to the initial stage of the nonstationary development of cracks from the original defects. Orig. art. has: 4 figures.

SUB CODE: 11/ SUBM DATE: 22Apr66/ ORIG REF: 006/ OTH REF: 002

Card 2/2 *HH*

ACC NR: AP7005416

SOURCE CODE: UR/0072/66/000/011/0017/0018

AUTHORS: Fedoseyev, D. V. (Candidate of technical sciences); Ryabov, V. A. (Candidate of technical sciences); Kireyev, P. S. (Engineer)

ORG: [Fedoseyev, Ryabov] Institute of Physical Chemistry, AN SSSR (Institut fizicheskoy khimii AN SSSR); [Kireyev] State Scientific Research Institute for Glass (Gosudarstvennyy nauchno-issledovatel'skiy institut stekla)

TITLE: Dependence of the diameter of glass fibers on the manufacturing method

SOURCE: Steklo i keramika, no. 11, 1966, 17-18

TOPIC TAGS: glass, fiber glass, mathematic analysis, PRODUCTION ENGINEERING, GLASS FIBER

ABSTRACT: An equation, expressing the dependence of the diameter of glass fibers on the properties of the glass and on the manufacturing method was derived as

$$d = \frac{1}{4\sqrt{2}} \sqrt{\frac{(L+1)g\rho D^3}{l\eta\mu}}$$

Here L is the level of the glass reservoir, l - length of die, g - acceleration of gravity, ρ - density of glass, D - diameter of die, η - viscosity of glass, and μ - rate of drawing. The derivation is based on the work of Ya. A. Shkol'nikov (Steklo i keramika, 1964, No. 7). The equation was tested on the experimental results of M. G. Chernyak et al. (Steklo i keramika, 1966, No. 1) and of V. A. Ryabov et al. (Steklo

Card 1/2

UDC: 661.189.211.212

ACC NR: AP7005416

(byulleten' GIS) 1961, No. 3), as well as on experimental data obtained by the present authors. The results of the tests are shown graphically (see Fig. 1).

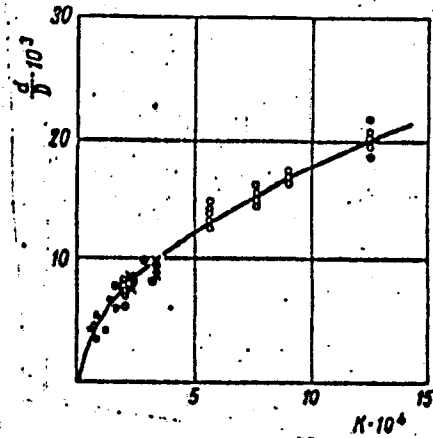
Fig. 1. Dependence of the ratio of glass fiber diameter to the die diameter on the

dimensionless criterion $K = \frac{L_p D^2}{L_{\mu} \mu}$

solid circles - data of Chernyak et al;

open circles - data of Ryabov et al;

crosses - data of present authors.



It was found that the experimental data were in good agreement with the proposed theoretical relationship. Orig. art. has: 1 graph, 1 table, and 4 equations.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 006

Card 2/2

FEDOSBYEV, E. (Vologda).

Success of members of Chelyabinsk section of the All-Union Volunteer
Society for Assistance to the Army, Air Force, and Navy. Za rul.
no.9:9-10 '57. (MLRA 10:9)
(Vologda--Motorcycle racing)

PA 157T92

FEDOSEYEV, G.

USSR/Radio - Radio Receivers

Dec 49

"The One-Tube 1-V-1," G. Fedoseyev, 1½ p

"Radio" No 12

Points out that set for receiving two or three powerful local stations should be simple, cheap, and economical. Fixed tuning is desirable to obviate need for two tuning circuits (with variable condensers). These requirements are satisfied by the 1-V-1, which uses 6B8 duplex-diode pentode. Will receive three Moscow stations at distance of 500-600 km. Includes three diagrams.

157T92

FEDOSEYEV, G.

Portable receiver. Radio no. 11:36-39 N '53.

(MIRA 6:11)

(Radio--Receivers and reception)

FEDOSEYEV, G., rukovoditel' radiokrushka (Kaliningrad)

Young radio amateurs in Kaliningrad. Radio no.4:17 - Ap '56.
(Kaliningrad--Radio clubs) (MIRA 9:7)

FEDOSEYEV, G., rukovoditel', master-radiokonstruktor

"Attention, here speaks the House of Pioneers in Kaliningrad."
IUn.tekh. 3 no.3:70-71 Mr '59. (MIRA 12:4)

1. Radiokrushok Kaliningradskogo doma pionerov.
(Kaliningrad--Pioneers (Communist youth))

Fedosyev, G.

107-9-9/53

AUTHOR: G. Fedosyev, Supervisor of the Radio Circle and of the Radio-Station of the Kaliningrad Pioneer House

TITLE: New Exhibits (Novyye eksponaty)

PERIODICAL: Radio, 1957, # 9, p 9 (USSR)

ABSTRACT: The "DOSAAF" radio circle of the Kaliningrad Pioneer House is preparing exhibits for the 14th Exhibition of Works of Radio-Amateur Designers. One of them is the 200 w first category shortwave transmitter, operating under the call signal UA2KAA. Another design is a 7-tube VHF transmitter with anode-screen modulation, operating in the frequency band of 38-40 megacycles, which may be used for telephone and telegraph communications. This article contains 1 photo.

AVAILABLE: Library of Congress

Card 1/1

FEDOSEYEV, G., master radiopionerov

Our obligations. Radio no.1:4 Ja '60. (MIRA 13:5)

1. Rukovoditel' radiokrushka Kaliningradskogo Doma pionerov.
(Radio clubs)

PAVLOTSKAYA, F.I.; FEDOSEYEV, G.A.; BABICHEVA, Ye.V.; ZATSEPINA, L.N.;
TYURYUKANOVA, E.B.

Methods of determining strontium-90, stable strontium, and calcium
in soils and plant residues. Pochvovedenie no.2:105-112 F '64.

(MIRA 17:3)

1. Institut geokhimi i analiticheskoy khimii imeni V.I.Vernadskogo.

1. FEDOSEYEV, G.A.
2. USSR (600)
4. Geography & Geology
7. We are going along Vostochnomu Saian (East Saian}. Novosibirsk, obl.gos. izd-vo,1951

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

929N/5
621.122
.F2

My Iden Po Vostochnomu Sayanu (We Go Through the Eastern Sayan Mountains)
Leningrad, Molodaya Gvardiya, 1952-
V. Illus., Maps
Publisher Varies
Lib. Mas: 1952
1956

OR

FEDOSEYEV, Grigoriy Anisimovich, kuzhener-geodezist; MAMAYEVA, O., redaktor;
MOROZOVA, G., tekhnicheskiy redaktor

[In the clutches of the Dzhugdyr] V tiskakh Dzhugdyra. [Moskva] Izd-vo
TsK VLKSM "Mologaiia gvardiia," 1956. 358 p. (MLRA 9:12)
(Lower Amur Province--Description and travel)

FEDOSEYEV, Grigoriy Anisimovich; SHARNINA, Ye.S., redaktor; MAZUROVA, A.F.,
tekhnicheskiy redaktor.

[Traveling through the Eastern Sayans] My idem po Vostochnomu Saianu.
[Novosibirsk] Novosibirskoe knizhnoe izd-vo, 1956. 1956. 391 p.
(MLRA 10:4)

(Sayan Mountains--Description and travel)

FEDOSEYEV, Grigoriy Anisimovich

[In the clutches of the Dzhugdyr] V tiakakh Dzhugdyra. Moskva,
Molodaja gvardiia. Vol.1. 1959. (MIRA 13:2)
(Siberia, Eastern--Description and travel) (Taigas)

FEDOSHYEV, Grigoriy Anisimovich; DUDNIKOV, D.I., red.; KHLOBORDOV, V.I.,
tekh.red.

[In the remote, mysterious taiga; notes of an explorer] Glukhoi,
nevedomoi taigoiu; zapiski puteshestvennika, Krasnodar, Krasno-
darskoe knizhnoe izd-vo, 1960. 329 p.

(MIRA 14:3)

(Siberia--Description and travel)

FEDOSEYEV, G.A.

State of the Pacific walrus population and its distribution.
Zool.zhur. 41 no.7:1083-1089 JI '62. (MIRA 15:11)

I. Magadan Branch of the Pacific Fishery and Oceanography
Research Institute.
(Pacific Ocean--Walrus)

FEDOSEYEV, Grigoriy Anisimovich; MAMAYEVA, O., red.; MIKHAYLOVSKAYA, N.,
~~tekhn-red.~~

[Death will wait for me] Smert' menia podozhdet. Moskva,
Izd-vo TsK VLKSM "Molodaia gvardiia," 1963. 524 p.
(MIRA 16:8)
(Okhotsk Sea region--Description and travel)

FEDOSEYEV, G.A.

Embryonic and postembryonic growth and sexual maturation in the
ringed seal *Phoca hispida ochotensis* Pall. Zool. zhur. 43 no.8:
1228-1235 '64. (MIRA 17:11)

1. Magadanskoye otdeleniye Tikhoodeanskogo nauchno-issledovatel'skogo
instituta rybnogo khozyaystva i okeanografii.

FEIKOV, G.A.; YABLOKOV, A.V.

Morphological characteristics of the Okhotsk seal *Pusa hispida*
(Pinipedia, Mammalia) in the Sea of Okhotsk. Zool. zhur. 44 no.5:
759-765 '65. (MIRA 18:6)

1. Magadanskoye otdeleniye Tikhookeanskogo nauchno-issledovatel'-
skogo instituta morskogo rybnogo khozyaystva i okeanografii i
Institut morfologii zivotnykh AN SSSR, Moskva.

FEDOSEYEV, G.A.

Determining the age and sex structure of the population and the stock of Okhotsk seals. Zool. zhur. 44 no.6:925-933 '65.

(MIRA 18:10)

1. Magadanskoye otdeleniye Tikhookeanskogo nauchno-issledovatel'skogo instituta morskogo rybnogo khozyaystva i okeanografii.

BARANOV, V.I.; PAVLOTSKAYA, F.I.; FEDOSEYEV, G.A.; TYURYUKANOVA, E.B.;
RODIONOVA, L.M.; BABICHEVA, Ye.V.; ZATSEPINA, L.N.; VOSTOKOVA, T.A.;
Prinimali uchastiye: YEMEL'YANOV, V.V.; BELYAYEVA, L.I.; LEVKINA, N.I.;
MOLCHANOVA, I.V.

Distribution of Sr⁹⁰ on the surface horizon of soils of the Soviet
Union during 1959-1960. Atom. energ. 18 no.3:246-250 Mr '65.
(MIRA 18:3)

Distribution of Sr⁹⁰ over the ground layer in Soviet Union from 1959-1960

Atomnaya energiya, v. 18, no. 4, 1965, p. 10-11

strontium, isotope, soil, soil property

Data are given on the distribution of Sr⁹⁰ in the soil of the USSR. The results are given in the form of tables and graphs. The tables show the concentration of Sr⁹⁰ in the soil at different depths (0-15 cm and 15-30 cm) and in the surface layer of the soil (0-15 cm). The graphs show the distribution of Sr⁹⁰ in the soil at different depths (0-15 cm and 15-30 cm) and in the surface layer of the soil (0-15 cm).

ABSTRACT: none

DATE SUBMITTED: 06Feb64

ENCL: 00

SUB CODE: NP, ES

NO REF SQV: 006

OTHER: 014

NA

Card 1/1 7/65

KRYLOV, Viktor Ivanovich; FEDOSEYEV, Gennadiy Aleksandrovich;
SHUSTOV, Artur Petrovich; POTEKINA, N.S., red.

[Pinnipedia of the Far East] Lastonogie Dal'nego Vostoka.
Moskva, Pishchevaia promyshlennost', 1964. 57 p.
(MIRA 17:12)

L 02330-67 SWI(1)/T RO/JK

ACC NR: AR6022385 (//) SOURCE CODE: UR/0397/65/000/024/0052/0052

AUTHOR: Eulstov, P. K.; Zlydnikov, D. M.; Fedoseyev, G. B.;
Khan-Fimina, V. A.; Sareyeva, A. N.

26
2.5
B

TITLE: Treatment of patients with various inflammatory diseases of the respiratory organs with garlic phytoncides

SOURCE: Ref. zh. Farmakologiya. Toksikologiya, Abs. 24.54.401

REF SOURCE: Sb. Morfol., fiziol. i patol. organov, dykhaniya. L. 1965, 25-28

TOPIC TAGS: respiratory system disease, microorganism contamination, pharmacognosy, therapeutics, phytoncide

ABSTRACT: The effect of volatile fractions and tissue juice of garlic on microorganisms (white, golden and lemon-yellow staphylococcus, hemolytic streptococcus, secondary type of pneumococcus, enteric bacteria, proteus, blue pus rods, and yeastlike fungi of the Candida type) frequently found in the sputum in lung diseases was investigated in vitro. An emulsion 0.1 ml of a 24 hr culture (500 million microbial bodies in 1 ml of physiological solution) was placed on the surface of a solid nutritive medium in 3 cups. 1 g of ground garlic was introduced

Card 1/2

UDC: 615.32

L 02330-57

ACC NR: AR6022385

into the first cup and 0.1 ml of garlic tissue juice was introduced into the second cup; the third cup served as a control. The bactericidal action of the garlic preparations in relation to all microorganisms was established by the presence of a sterile zone. Bactericidal action was not reduced with the addition of euspiran (3 drops/1 ml) to garlic tissue juice. 122 patients with acute pneumonia, aggravated chronic pneumonia, and chronic bronchitis were treated with inhalations of garlic tissue juice diluted in a physiological solution or a 0.25% novocaine solution (1:3). The course of treatments was 8 to 40 inhalations. A good or favorable effect was found in 106 patients (86.7%). The addition of antibiotics or sulphamides to the garlic tissue juice did not influence the therapeutic effect. Garlic inhalations by 34 chronic pneumonia patients with Candida infection of the lung complications produced a positive clinical effect in 26 patients (76.5%); decrease or disappearance of Candida fungus cells in the sputum was noted in 16 patients (47%). A. Gladkikh. Translation of abstract.

SUB CODE: 06

na
Card 2/2

BULATOV, P.K.; ZLYDNIKOV, D.M.; FEDOSEYEV, G.B.; KHAN-FIMINA, V.A.

Use of garlic phytoncides for the treatment of various
inflammatory diseases of the respiratory organs. Sov.med.
28 no.12:86-90 D '65. (MIRA 18:12)

1. Kafedra gospital'noy terapii (zav. - prof. P.K.Bulatov) i
kafedra mikrobiologii (zav. - prof. V.N.Kosmodamianskiy) I
Leningradskogo meditsinskogo instituta imeni I.P.Pavlova.

FEDOSEYEV, G.L.

Practice of the Kazatskii combine in the use of bank loans. Sakh.
prom. 33 no.12:49-50 D '59. (MIRA 13:4)

1. Kazatskiy patochnyy kombinat
(Sugar industry)

FEDOSEYEV, G.L.

Operating with a new type of raw material for the production of
caramel sirups. Sakh.prom. 34 no.5:49-52 My '60. (MIRA 14'5)

1. Kazatskiy patochnyy zavod.
(Lipetsk Province—Caramel)

AUTHORS: Mikhaylov, G. P., Fedoseyev, G. P., 48-22-3-17/30
Skanavi, G. I., Chmutin, M. S., Ksendzov, Ya. M.,
Matsonashvili, B. N., Kolomoitsev, F. I., Vodop'yanov, K. A.

TITLE: Discussions on Reports Submitted by: K. A. Vodop'yanov and
I. G. Vorozhtsova; K. A. Vodop'yanov and G. I. Galibina;
B. N. Matsonashvili (Preniya po dokladam: K. A. Vodop'yanova
i I. G. Vorozhtsovoy; K. A. Vodop'yanova i G. I. Galibinoy;
B. N. Matsonashvili)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1958,
Vol. 22, Nr 3, pp. 309-310 (USSR)

ABSTRACT: G. P. Mikhaylov comments the report submitted by K. A.
Vodop'yanov and I. G. Vorozhitskaya as follows: The frequency
band is too narrow in the lecture delivered as to draw any
conclusions on the relaxation processes in mica. - G. P.
Fedoseyev says with respect to the same lecture: The lectured
conclusions are apparently scarcely convincing. The explanation
of the change-mechanism of the dielectric constant and of the
anglo-tangent in mica, however, is of value. Complementary
works must be carried out, however, in order to give a more
convincing effect to the judgement on the relaxation character

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Discussions on Reports Submitted by: K. A. Vodop'yanov and 48-22-3-17/30
I. G. Vorozhtsova; K. A. Vodop'yanov and G. I. Galibina;
B. N. Matsonashvili

in mica. - G. I. Skanavi: Two essential contradictions exist between the works by K. A. Vodop'yanov and G. I. Galibina and the work by B. N. Matsonashvili. 1) Matsonashvili discovered relaxation maxima on the $\text{tg } \delta$ -curves of the alkaline-halogen crystals, which were not observed by Vodop'yanov and Galibina. 2) Vodop'yanov and Galibina maintain that with an increase in lattice-energy of the alkaline-halogen crystals, the $\text{tg } \delta$ decreases at room-temperature and high-frequency. Matsonashvili did not find such a correlation. The first contradiction is based on the fact that Vodop'yanov and Galibina determined the temperature dependence of $\text{tg } \delta$ on the basis of measurements at different temperatures with large temperature intervals and not in vacuum. The second contradiction may be explained by the fact that the real losses of the alkali-halogen crystals are very small at room-temperature. The losses increase rapidly, however, due to the hygroscopicity of many crystals, if no precautions were taken. M. S. Chmutin: An approximating extra-polation of the $\text{tg } \delta$ -value to high temperatures, leads - according to data by Vodop'yanov and Galibina - to a conformity with our experiments. Though

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Discussions on Reports Submitted by: K. A. Vodop'yanov and 48-22-3-17/30
I. G. Vorozhtsova; K. A. Vodop'yanov and G. I. Galibina;
B. N. Matsonashvili

Matsonashvili carries out his tests in vacuum, his results by extrapolation to high temperatures, are higher than ours. -
Ya. M. Ksendzov: Data with smaller values of $\text{tg } \delta$, viz. the data obtained by B. N. Matsonashvili, inspire more trust. -
B. N. Matsonashvili: The work-results obtained by Vodop'yanov and Galibina suffer from the fact that they were determined under atmospheric conditions. The hygroscopicity of the samples was markedly expressed in this case. Chmutin criticized the high $\text{tg } \delta$ -values I obtained. I showed in my work that the dielectric properties depend on the previous history of the sample. Therefore, only results obtained by the measurement of one and the same sample may be compared. It would be absolutely necessary to carry out a "complex" investigation of the different properties of the alkaline-halogen mono-crystals with the same samples and on the same conditions. -
F. I. Kolomoitsev: It may be assumed that no fundamental contradictions exist between the experimentally obtained results which were determined in the laboratories by G. I. Skanavi and K. A. Vodop'yanov since the previous history of

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Discussions on Reports Submitted by: K. A. Vodop'yanov and 48-22-3-17/30
I. G. Vorozhtsova; K. A. Vodop'yanov and G. I. Galibina;
B. N. Matsonashvili

the samples may cause different results with the measuring of the $tg \delta$. - K. A. Vodop'yanov: The methods applied are the decisive factor in carrying out similar works as that by Matsonashvili and ours. The results obtained by Skanavi with his method cannot deny the presence of a connection between $tg \delta$ and lattice-energy. It must be replied to G. P. Fedoseyev that it was not provided within the scope of this work to explain the practical usefulness of the thermal treatment of mica.

AVAILABLE: Library of Congress

1. Mica--Dielectric properties 2. Single crystals--Dielectric properties 3. Single crystals--Conductivity 4. Alkaline-halogen crystals--Dielectric properties

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FEDOSEYEV, G.P.

AUTHORS: Pisarenko, V. F., Balygin, I. Ye., 48-22-4-12/24
Fedoseyev, G. P., Tonkonogov, M. P., Fridberg, I. D.,
Tolpygo, K. B., Konorova, Ye. A., Skanavi, G. I.

TITLE: Discussions on Lectures by: S. M. Bragin, G. A. Vorob'yev
and A. A. Vorob'yev; L. A. Sorokina and Ye. A. Konorova;
V. D. Kuchin; Ye. A. Konorova, V. V. Krasnopevtsev and G. I.
Skanavi (Preniya po dokladam: S. M. Bragina; G. A. Vorob'yeva
i A. A. Vorob'yeva; L. A. Sorokinoy i Ye. A. Konorovoy; V. D.
Kuchina; Ye. A. Konorovoy, V. V. Krasnopevtseva i G. I.
Skanavi)

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ABSTRACT: V. B. Pisarenko criticises the paper by G. A. Vorob'yev
and A. A. Vorob'yev. He maintains, that in the investigation
of the breakdown of colored rock salt the influence of space
charge was not taken into consideration. I. Ye. Balygin
maintains, that the experiments by Bragin are of great
importance, as little research has hitherto been conducted
in this field. In the lecture by Vorob'yev and Vorob'yev the
division of breakdown into two stages was not sufficiently

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