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Resolutions of the Snow and Ice Subsection, Hydrophysics Section 467

AVAILABLE: Library of Congress

Card 14/14

MM/bg
10-15-59

BELIKOV, P.S., prof., doktor biologicheskikh nauk; KIRILLOVA, T.V.,
aspirantka

Dynamics of the secretion of substances as an indication of the
heat resistance of plant tissue. Izv.TSKhA no.6:7-18 '59.
(MIRA 13:6)

(Plants, Effect of temperature on)

KIRILIOVA, T.V.

"Radiation Balance of Water Surface."

[Institute of Oceanology, Academy of Sciences USSR]

report to be presented at the 12th General Assembly of the International Union of Geodesy and Geophysics, Helsinki, Finland, 25 Jul- 6 Aug 1960.

VORONTSOV, P.A.; MESHCHERSKAYA, A.V.; SELEZNEVA, Ye.S.; CHESTNAYA, I.I.;
AYNBUND, M.M.; KIRILLOVA, T.Y.; NESINA, L.V.; OGREVA, T.A.;
SEROVA, N.V.; TIMOFEEV, M.P., kand.fiz.-mat.nauk; ZHDANOVA, L.P.,
red.; BRAYNINA, M.I., tekhn.red.

[Meteorological regime of Lake Sevan] Meteorologicheskii rezhim
ozera Sevan. Pod red. M.P.Timofeeva. Leningrad, Gidrometeor.
izd-vo, 1960. 310 p. (MIRA 14:3)

1. Leningrad. Glavnaya geofizicheskaya observatoriya.
(Sevan Lake region--Meteorology)

BELIKOV, P.S., doktor biologicheskikh nauk, prof. KIRILLOVA, T.V., aspirantka

Effect of thermal stimuli on the viscosity of protoplasm [with
summary in English]. Izv. TSKhA no.5:35-44 '60. (MIRA 13:11)
(HEAT--PHYSIOLOGICAL EFFECT) (PROTOPLASM)

3732C

S/169/62/000/004/024/103
D228/D302

3.2430

AUTHOR: Kirillova, T. V.

TITLE: Calculating the effective radiation in Central Arctic regions

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 4, 1962, 15, abstract 4B112 (V sb. Aktinometriya i atmosfern. optika, L., Gidrometeoizdat, 1961, 72-79)

TEXT: Under Arctic conditions the usual methods of calculating long-wave radiation flows may result in considerable errors, since the empirical formulas and the radiation graph are constructed on the assumption that the temperature decreases linearly, and that the humidity diminishes exponentially with altitude. In Arctic environments the atmosphere's stratification is anomalous both in summer and winter; more precise specifications have, therefore, to be introduced into the computation scheme that is accurate for middle latitudes. The values of the temperature gradients in layers and of the coefficient A_h in the formula for the humidity --

Card 1/3

Calculating the effective ...

S/169/62/000/004/024/103
D228/D302

$q_h = q_0 \Lambda_h$ (here q_0 , q_h is the specific humidity at ground level and altitude h ; and $\Lambda_h = e^{-\gamma h} \cdot p_0 \cdot p_h^{-1}$, where p_0 , p_h is the pressure, and γ is the temperature gradient) -- were determined for summer and winter from the mean data of aerologic sounding at stations $CA-4$ (SP-4) and $CA-5$ (SP-5). For 50 cases in the summer and the winter periods calculations of the effective radiation and the counter-radiation were made from N. F. Shekhter's nomogram for set temperature and humidity values at the ground surface; graphs were also constructed to calculate the radiation flows according to ground data for May-September and October-April. It is shown from the data of cloud diagram at latitude 60° and from the mean counter-radiation values at the time of clear skies or continuous cloud that for the Arctic the counter-radiation's dependence on the degree of cloudiness is nearly linear. The values of the coefficients k in the known formula $\Pi_n = \Pi_0 (1 + kn)$ were calculated for the Arctic from the average cloud heights, the temperature relationship of the radiating capacity of clouds (according to M.S. Marshunova), and the data of aerologic soundings. The comparison

X

Card 2/3

Calculating the effective ...

S/169/62/000/004/024/103
D228/D302

of the experimental data with those obtained by means of new
graphs, showed the good convergence of the results. [Abstracter's
note: Complete translation.]

X

Card 3/3

3.5/10

S/169/62/000/007/096/149
D228/D307

AUTHORS:

Vorontsov, P. A. and Kirillova, T. V.

TITLE:

Relation of the radiation balance to the boundary layer stratification

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 7, 1962, 22, abstract 7B128 (V sb. Aktinometriya i atmosfer. optika, L., Gidrometeoizdat, 1961, 32-36)

TEXT: The relation between the radiant energy balance in the atmosphere's lower layer and the vertical temperature profile is investigated. The results of measurements of the radiation balance and the temperature gradient on clear, cloudy, and overcast days are used for this purpose. It was established that the ratio for the long-wave radiation balance (B_1) to the radiation of the underlying surface (σT_n^4), which is considered as a black body when the surface temperature is T_n , is related to the temperature gradient δ in the layer 0 - 100 m. In equilibrium conditions $B_1/\sigma T_n^4 \approx 0.2$.

Card 1/2

Relation of the ...

S/169/62/000/007/096/149
D228/D307

In case of inversions $\Delta B_1/\Delta \gamma = 0.01$; in the event of superadiabatic gradients this ratio equals $0.05 \text{ cal/cm}^2 \cdot \text{min} \cdot \text{deg}$. For conditions of continuous cloud B_1 does not depend on γ . Analogous relations were obtained, too, for the ratio of long-wave atmospheric radiation (E_a) to σT^4 (T being the air temperature). [Abstracter's note: Complete translation.]

KIRILLOVA, T.V.; NESINA, L.V.

Calculation of the components of the thermal balance of reservoirs.
Trudy GGO no.95:13-18 '63. (MIRA 16:7)
(Water--Thermal properties)

KIRILLOVA, T.V.; TERVINSKIY, V.N.; CHESTNAYA, I.I.

Cloud observations above reservoirs. Trudy GGO no.95:30-32
'63. (MIRA 16:7)

(Clouds)

ACCESSION NR: AT4004730

S/2922/63/007/000/0240/0248

AUTHOR: Kirillova, T. V.

TITLE: The forming of the radiation balance of the underlying surface

SOURCE: Vses. nauchn. meteorologich. soveshch. Trudy*, v. 7. Fizika prizemnogo sloya. Leningrad, 1963, 240-248

TOPIC TAGS: meteorology, radiation balance, ground radiation, boundary layer, heat balance, actinometry, actinometric observation, Arctic radiation, atmospheric boundary layer, surface albedo, radiation scattering, radiation

ABSTRACT: There are two groups of factors which determine the value of the radiation balance. Investigation of the influence of factors of the first group, based upon astronomical and geodetic variables, leads to the establishment of the correlation $B = aQ + b$ where Q = total radiation, B = radiation balance, and a and b are coefficients. Factors of the second group, based on the properties of the underlying surface, lead to the conclusion that coefficients a & b are significantly different for different types of underlying surfaces, seasons, and even for certain times of the day. Tabulated data are included for Lake Sevan and the Tsimlyanskoye reservoir. It is concluded that the supposition of the equality of atmospheric radiation in adjacent regions with different

1/2

Card

KIRILLOVA, T. V.; MALEVSKIY-MALEVICH, S. P.

"The influence of inhomogenities of an underlying surface on heat transfer in the lower layer of the atmosphere."

reporot presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.

KIRILLOVA, T. V.; ROSS, Yu. K.; SULEV, M. A.

"Comparison of net radiometers."

report presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.

KIRILLOVA, T.V. (Moskva)

Exudation of water-soluble substances by plant tissues. Usp. sovr.
biol. 57 no.3:463-476 My-Je '64. (MIRA 17:6)

KIRILLOVA, T.V.; MALEVSKIY-MALEVICH, S.P.

Measuring the albedo of the sea from a helicopter. Trudy
GGO no.150:120-124 '64. (MIRA 17:7)

KAZHDAN, R.M.; KIRILOVA, T.V.; PROBRASHCHIKOV, I.Yu.

Result of observations on the radiation balance in the coastal
region of the Black Sea. Trudy GGO no.150:125-130, 1964.

(Doc 17:7)

KONDRAT'YEV, Kirill Yakovlevich; KIRILLOVA, T.V., otv. red.;
BELEN'KAYA, L.L., red.

[Actinometry] Aktinometriia. Leningrad, Gidrometeoizdat,
1965. 690 p. (MIRA 18:5)

KIRILLOVA, T.V., kand. fiz.-matem. nauk; MALEVSKIY-MALEVICH, S.P.

One error in the calculation of long-wave radiation balance.
Meteor. i gidrol. no.1:36-38 Ja '65. (MIRA 18:2)

1. Glavnaya geofizicheskaya observatoriya im. Voyeykova.

МИНИСТЕРСТВО НАУКИ И ВЫСШЕГО ОБРАЗОВАНИЯ СССР; МИНИСТЕРСТВО ВОЕННЫХ ДЕЛ СССР.

2. Издание баланса по Волгоградскому району. Издание 1955 года. (Лист 1818)

1. Описание географического положения Волгоградской области.

KIRILLOVA, T.V.

Movement of the protoplasm of barley coleoptile cells at sublethal temperatures. Fiziol. rast. 12 no.3:494-499 My-Je '65.

(MIRA 18.10)

1. Kafedra fiziologii rasteniy sel'skckhozyaystvennoy akademii imeni K.A. Timiryazeva, Moskva.

KIRILLOVA, T.V.

Radiation balance for bodies of water of various depth and
dimensions. Trudy GGO no.167:134-139 '65.

(MIRA 19:1)

L 14569-66 ENT(1) GW

ACC NR: AT6004156

SOURCE CODE: UR/2531/65/000/167/0144/0148

AUTHOR: Kirillova, T. V.; Malevskiy-Malevich, S. P.

ORG: Main Geophysical Observatory, Leningrad (Glavnaya geofizicheskaya observatoriya)

TITLE: On the profile of upwelling fluxes of longwave radiation above a reservoir

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 1, 1965. Fizika pogramichnogo sloya atmosfery (Physics of the boundary layer of the atmosphere), 144-148

TOPIC TAGS: upwelling longwave radiation, helicopter flight, radiometer, germanium filter, meteorological condition, downwelling radiation, radiation balance

ABSTRACT: In spring, 1963, measurements of upwelling longwave radiation were made above Tsimlyansk Reservoir by a helicopter in horizontal flights at heights of 10, 20, 30, 50, 100, and 200 m using a radiometer with a germanium filter. On the basis of these measurements, data profiles of upwelling longwave radiation were drawn characterizing the energy distribution with height. Profiles obtained from direct measurements were compared with those computed theoretic-

Card 1/2

L 14569-66

ACC NR: AT6004156

cally. Both results agree inasmuch as meteorological conditions during the observation period did not change. The downwelling radiation was measured above both the water surface and dry land. The downwelling radiation measured at various heights was reduced by the formula

$$\frac{E_{H=0}}{E_{H=1}}$$

for comparison to the intensity above the ground. A table in the original article contains the reduced downwelling radiation for both the water and dry land. The difference between the downwelling and upwelling radiation is the radiation balance, the gradient of which was computed by height and given in a table. This gradient does not change above the height of 200 m either above the ground or the water. Orig. art. has: 3 figures, 3 tables, and 2 formulas. [EG]

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 004/ ATD PRESS: 4159

OC
Card 2/2

L 14176-66 EWT(1) OW

ACC NR: AT6004155

(N)

SOURCE CODE: UR/2531/65/000/167/0134/0139

AUTHOR: Kirillova, T. V.

23
B+1

ORG: Main Geophysical Observatory, Leningrad (Glavnaya geofizicheskaya observatoriya)

TITLE: Radiation balance for reservoirs of various sizes and depths

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 1, 1965. Fizika pogranichnogo sloya atmosfery (Physics of the boundary layer of the atmosphere), 134-139

TOPIC TAGS: meteorology, water supply system, water, radiation balance

ABSTRACT: Data are given from calculation of changes in the radiation balance for various sizes and depths of reservoirs. The calculations are based on surface temperatures and air temperature and humidity above the reservoir. The results indicate that an increase in the size of the reservoir (at a depth of 20 m) results in a reduction in the radiation balance in the first half of the summer and an increase in the second half. The radiation balance is more dependent on depth than size.

Card 1/2

L 14176-66

ACC NR: AT6004155

The variation in radiation balance with depth is greater in the early spring months and late autumn months. The dependence of radiation balance on depth is greater in small reservoirs than in large ones. Curves are given showing the seasonal variation in radiation balance as a function of depth for reservoirs of various sizes. A change in meteorologic conditions above the reservoir has a considerable effect on the radiation balance. Orig. art. has: 3 figures, 3 tables, 2 formulas.

SUB CODE: 08/ SUBM DATE: 00/ ORIG REF: 007/ OTH REF: 000

Card 2/2 *JK*

L 08301-67 EWT(1) OW

ACC NR: AT6031975 (N)

SOURCE CODE: UR/3199/66/000/015/0080/0082

AUTHOR: Kirillova, T. V. (Candidate of physico-mathematical sciences);
Malevskiy-Malevich, S. P.

ORG: none

28

B+1

TITLE: Evaluation of random errors of the Laykhtman-Kucherov differential pyrogeometer

SOURCE: AN SSSR. Mezhdovedomatvennyy geofizicheskyy komitet. Meteorologicheskiye issledovaniya, no. 15, 1966, 80-82

TOPIC TAGS: differential pyrogeometer, radiation flux, sun shadow method, random error, PYROMETER, METEOROLOGIC INSTRUMENT, EARTH RADIATION

ABSTRACT: The Laykhtman - Kucherov differential pyrogeometer is an instrument with an operating principle different from most other instruments for measuring radiation fluxes. Therefore, a more careful statistical analysis is necessary to estimate the values of random instrumental errors. Calculations, show that a method offered by the instrument designers for the processing data is undoubtedly preferred. The accuracy of measuring radiation fluxes at night and the low reliability daytime made measurements with the unshaded receiver are evaluated. It is concluded that the conversion factor obtained by the sun-shadow

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L 08301-67

ACC NR: AT6031975

O

method is not sufficiently accurate and that it is necessary to calibrate the instrument by other methods. When comparing the values of random errors of the differential pyrgometer with the errors of some other instruments, it is necessary to take into account the technical specifications of the instrument according to the number of measurements for a certain period of time and to compare random errors of different instruments for an equal number of readings. Orig. art. has: 2 formulas.

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 002

Card 2/2 nst

15260-66
ACC NR: AR5021790

SOURCE CODE: UR/0299/65/000/015/R039/R040

AUTHOR: Belyakov, P.S.; Dmitriyeva, M.I.; Kirillova, T.V.

30
30

ORG: none

TITLE: Physiological and biochemical characteristic of vegetable cell response reactions under the sustained influence of high temperatures

SOURCE: Ref. zh. Biologiya, Abs. 8R262

REF SOURCE: Sb. Kletka i temperatura sredy. M.-L., Nauka, 1964, 194-196

TOPIC TAGS: cell physiology; high temperature effect, biology

TRANSLATION: Barley sprouts or fragments of coleoptile were removed from their optimal temperatures (17-18°) to a medium with a 44° temperature. The physiological processes were studied from the starting moment of thermal effect to the moment of complete destruction of the cells. By using a comparatively simple viscous mass for changing the permeability of the protoplasm (P), it was established that both at the beginning and at the end of the thermal effect, P had a weak power for the retention of water-soluble matter, such as monosaccharides, amino acids and cells. A description is given of the "history of thermal disease." The double-phase and wave-like changes with time in P under the thermal effect were clarified. Under the effect of

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UDC: 577.3

L 15260-66

ACC NR: AR5021790

thermal excitation there occurred a staggering of phases which, in the opinion of the authors, were analogous to the excitation and the relative non-excitability of excitable formations in animal organisms. L. Danilova.

SUB CODE: 06

OC

Card 2/2

KIRILLOVA, T. V.

Cand Biol Sci - (diss) "Effect of damaging agents on the temporal course of the release of substances by plant tissues." Moscow, 1961. 18 pp; with diagrams; (Academy of Sciences USSR, Inst of Plant Physiology imeni K. A. Timiryazev); 200 copies; price not given; (KL, 6-61 sup, 207)

BELIKOV, P.S., doktor biolog. nauk, prof.; KIRILLOVA, T.V., kand.
biolog. nauk

Dynamics of the excretion of some substances from barley
coleoptiles under the influence of heat. Izv. TSKHA no.6:
61-68 '62. (MIRA 16:6)

(Barley)
(Plants, Effect of temperature on)
(Exudation(Botany))

YEFREMOV, G.L.; KIRILLOVA, T.Ya.

Feldspar-free glaze with a short melting interval. Steklo i Keram. 9,
No.1, 17-20 '52. (MLRA 4:12)
(CA 47 no.19:10193 '53)

KIRILLOVA, V.I.

Let's push to the front ranks! Prom.koop. 14 no.1:13 Ja '60.
(MIRA 13:5)

1. Nachal'nik tsekha No.7 arteli "Kollektivnyy trud," Kalinin.
(Kalinin--Clothing industry)

L 2262-66 EWT(m)/EPF(e)/EWP(j)/T RM

ACCESSION NR: AP5009325

8/0191/65/000/004/0099/0060

AUTHORS: Rubtsova, I. K. ^{44.55}; Kirilovich, V. I. ^{44.55}TITLE: Synthesis of α -oxide- α -furylphosphinic acid esters η , 44.55

SOURCE: Plasticheskiye massy, no. 4, 1965, 59-60

TOPIC TAGS: ester, ether, furylphosphinic acid, polymer, monomer

ABSTRACT: In an effort to expand the results obtained by V. S. Abramov and A. S. Kapustina (ZhOKh, 27, 173, 1957), the authors synthesized and studied α -oxide- α -furylphosphinic acid esters with aliphatic, heterocyclic, and aromatic radicals. The reactions of furfurole with dihexyl-, diheptyl-, dioctyl-, dinonyl-, didecyl-, ditetrahydrofuryl-, and diphenylphosphites were investigated. All the esters (except the crystalline dimethyl ester) were yellow, viscous, nondistillable liquids. Percentage content of hydroxyl groups and iodine numbers were determined in all esters, the first one by the method described by I. P. Losev and O. Ya. Fedotova (Praktikum po khimii vysokopolimernykh soyedineniy, Goskhimizdat, 1962, 93), the second by the method of pyridinesulphatebromide. The experimental procedures used in producing dimethyl- α -oxide- α -furylphosphinate in an atmosphere of sulfur ether, dihexyl- α -oxide- α -furylphosphinate, and ditetrahydro- α -oxide- α -furylphosphinate.

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L 2262-66

ACCESSION NR: AP5009325

are presented in detail. Table 1 on the Enclosure shows the characteristics of α -oxide- α -furylphosphinic acid esters. Orig. art. has: 3 formulas and 1 table. 0

ASSOCIATION: none

SUBMITTED: 00

ENCL: 02

SUB CODE: 00

NO REF SOV: 006

OTHER: 001

Card 2/4

L 2262-66

ACCESSION NR: AP5009325

ENCLOSURE: 01

Table 1. Characteristics of -oxide- -furylphosphinic acid esters

Ester	Melting Temp., °C	20 n _D	20 d ₄
Dimethyl	62-63	-	-
Dimethyl (obt. in sulfur ether)	62-63	-	-
Di-n-hexyl	-	1.4682	1.0563
Di-n-heptyl	-	1.4688	1.0317
Di-n-octyl	-	1.4686	1.0191
Di-n-nonyl	-	1.4678	1.0031
Di-n-decyl	-	1.4671	0.9919
Ditetrahydrofuryl (very viscous)	-	1.4994	-
Diphenyl (very viscous)	-	1.5685	-

to Enclosure 02

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ACCESSION NR: AP5009325

ENCLOSURE: 02

0

MR _D		OH, %		P, %	
determ.	calc.	determ.	calc.	determ.	calc.
-	-	8.11	8.25	14.34	15.04
-	-	7.88	8.25	14.21	15.04
91.0	91.61	4.83	4.91	8.8	8.96
100.14	100.84	4.26	4.54	8.0	8.28
109.5	110.08	4.08	4.22	8.1	7.7
119.08	119.31	3.31	3.97	7.33	7.21
128.08	128.55	3.28	3.71	5.9	6.76
-	-	4.84	4.91	8.2	8.95
-	-	4.90	5.15	8.9	9.38

from Enclosure O1

Card *4/68*

L 21601-66 ENT(m)/EWA(h)/EWP(t) IJP(c) JD

ACC NR: AP6007010

SOURCE CODE: UR/0051/66/020/002/0337/0339

AUTHOR: Kirillova, V. M.; Lotkova, E. N.

ORG: none

TITLE: Absorption spectrum in the near infrared region of neutron-irradiated silicon

SOURCE: Optika i spektroskopiya, v. 20, no. 2, 1966, 337-339

TOPIC TAGS: silicon, IR absorption, absorption spectrum, neutron irradiation

ABSTRACT: The authors studied the infrared absorption spectra of neutron-irradiated single crystals of silicon in the 0.7-1.7 μ range. The specimens were irradiated with doses of 10¹⁷-10¹⁹ fast neutrons/cm². The specimens were plane-parallel polished plates with thicknesses of 30-60 μ and varied with respect to conductivity type, dopant concentration, and radiation dose. The spectra were taken at room temperature. An analysis of the spectrograms shows that the threshold for a sharp increase in absorption in the 0.7-1 μ range is the same for both irradiated and nonirradiated samples. The irradiated specimens show absorption maxima at 1.05, 1.23, 1.4, and 1.5 μ. The intensity of these bands is proportional to the radiation dose and decreases as

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UDC: 535.34-15 : 546.28

62
61
19.44. SB

I. 21601-66

ACC NR: AP6007010

the specimens are heated, i.e., as radiation defects are destroyed. Heating of the irradiated specimens for several hours at 22°C destroys all these bands. A model is proposed for the electron transitions between the valence and conduction bands to explain the absorption maxima. The authors are sincerely grateful to N. N. Sobolev for interest in this work. Orig. art. has: 2 figures. [14]

SUB CODE: 20/ SUBM DATE: 23Apr65/ ORIG REF: 001/ OTH REF: 004
ATD PRESS: 4218

Card ^{dda} 2/2

SIMAYEV, M.M., inzhener; KIRILLOVA, V.M., inzhener;

Redesign of a pressure-vacuum pipe still. Neftianik 1 no.10:4-6
0 '56. (MLRA 9:11)

1. Ufimskiy neftepererabatyvayushchiy zavod.
(Petroleum--Refining)

SIZENKO, S.P.; GORODYSKIY, V.I.; VESELYA I.V.; KIRILLOVA, V.S.

Study of the antitumor properties of polythionates. Uch.
zap. KHROI 7:192-197'61. (MLA 16:8)
(CYTOTOXIC DRUGS) (THIONATES—THERAPEUTIC USE)

KIRILLOVA, V. V.

137-58-4-6749

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 4, p 64 (USSR)

AUTHOR: Kirillova, V. V. (Compiler)

TITLE: Continuous Steel Casting at the "Krasnoye Sormovo" Plant
(Nepreryvnaya razlivka stali na zavode "Krasnoye Sormovo":
Recommended List of References (Rekomend. spisok lit)

PERIODICAL: Gor'kovsk. obl. b-ka. Gor'kiy, 1957, 11 pp

ABSTRACT: Bibliographic entry

1 Metallurgy--USSR 2 Steel--Casting--Production

Card 1/1

KIRILOVA, Ye. G.

"Root crops under the conditions of the high mountainous Pamir region."
Acad Sci Tadzhik SSR. Department of Natural Sciences. Stalinabad, 1956.
(Dissertation for the Degree of Candidate in Agricultural Science.)

So: Knizhnaya letopis', No. 18, 1956

KIRILLOVA, Yevgeniya Grigor'yevna; OVCHINNIKOV, P.H., otv.red.; ZEMAN,
G.O., red.; KOTSABENKO, Ye.G., red.isd-va; FROLOV, P.M.,
tekhn.red.

[Root crops in the high Pamirs] Korneplodnye kul'tury v usloviakh
vysokogorii Pamira. Stalinabad, 1959. 86 p. (Akademiia nauk
Tatshikskoi SSR. Stalinabad. Trudy, vol. 91). (MIRA 13:2)
(Pamirs--Root crops)

ABDULLOVA, Ye.G.; NIGMATULLIN, F.G.; RAYKOV, I.A.

Results of the research on the development of high mountain farming in the Pamirs. Trudy Pam. biol. sta. 1963 No. 10. (MIRA 1/1969)

KPRILICVA, Y. G.

History of the potential origin of the multi-lab system in the Pazira.
Study for. Biol. etc. 1975-92. (MIRA 17:10)

15.2100

39635

S/191/62/000/000/001/013
3124/3180

AUTHORS: Kirillova, E. I., Matveyeva, Ye. N., Zavitayeva, L. D.,
Fratkina, G. P., Obol'yaninova, N. A.

TITLE: Aging of polystyrene plastics. Thermal aging of styrene -
acrylonitrile copolymers

PERIODICAL: Plasticheskiye massy, no. 8, 1962, 3-10

TEXT: Thermal aging of styrene - acrylonitrile copolymers CH-10 (SN-10)
(10.8% acrylonitrile groups), CH-20 (SN-20) (20.15 and 21.4% acrylonitrile
groups, molecular weight 113,000 and 119,000), and also CH-28 (SN-28)
(29.55, 26.5, and 27.7% acrylonitrile groups, molecular weight 156,000,
120,000, and 132,000) was investigated on films 50-100 μ thick between
140 and 180°C, and compared with that of polystyrene films. For the
copolymers, dichloro ethane was used as solvent and petroleum ether as
precipitant, with benzene and ethyl alcohol for the polystyrene. The
molecular weights were calculated from the viscosimetric data of L. K.
Veselovskaya. The degree of aging was estimated on the basis of the
measured intrinsic viscosity, the nitrogen content, and the carbonyl group
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Aging of polystyrene plastics. ...

S/191/62/000/006/001/013
B124/B180

formation determined by absorption spectrometry. The rate of formation of oxygen-containing groups falls as the acrylonitrile content in the copolymer rises, and also with its molecular weight (Fig. 8). It is 2-3 times greater in polystyrene than in the SN-28 copolymer. Azomethines with one OH group were effective stabilizers in ortho- and para-position in aniline and one NH₂ group in para-position only. Azomethine obtained by introducing the group (CH₃)₂N in benzaldehyde proved to be inefficient while the same compound with one OH group in aniline was highly effective. Azomethines based on salicyl aldehyde and hydroxy aniline are also good stabilizers. All azomethines discolor the product and are only recommended for black products. Effective alkyl phenols are phenyl cresylol propane, phenyl isopropyl resorcin, phenyl isopropyl pyrocatechin, 3-methyl-4-phenyl ethyl-6-isopropyl phenol, 3-methyl-4-phenyl isopropyl-6-isopropyl phenol, butyl gallate, bis-[2-tert-butyl-4-methyl phenol]-methane. Extension of the carbon chain between two benzene rings does not greatly affect the stabilizing effect while the latter is increased by introducing a CH₃ group in the benzene ring in the case of dimethyl phenyl-p-cresol and dicresylol propane. There are 11 figures

4

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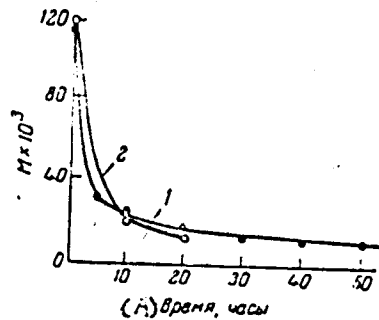
aging of polystyrene plastics. ...

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3124/3180

and 5 tables. The three English-language references are: S. L. Madorsky, S. Straus, Ind. Eng. Chem. 40, 848 (1948); H. H. G. Ellinek, J. Polymer Sci. 3, 850 (1948); 4, No. 1 (1949); M. J. Reiney, N. Tryon, B. G. Ackhammer, J. Res. Nat. Bur. Stand. 51, No. 3, 155 (1953).

Fig. 8. Change of molecular weight in thermal aging: (1) SK-20;

(2) SK-26.
Legend: (A) time, hrs.



Card 3/3

KUZNETSOVA, T.I., kand.tekhn.nauk; KIRILLOVA, Ye.I.

Method for evaluating cleansing preparations by their detergency.
Trudy NITKHI no.1:106-112 '62. (MIRA 17:4)

BLINOV, L.K., nauchnyy sotrudnik; TSURIKOVA, L.K., nauchnyy sotrudnik;
PAKHOMOVA, A.S., nauchnyy sotrudnik; SOPACH, E.D., nauchnyy
sotrudnik. Prinimali uchastiye: PONSOV, A.G.; KALASHNIKOVA,
V.V.; KIRILLOVA, Ye.P.; LOS', B.M.; LEBEDEVA, G.V.. KORNILENKO,
V.S., red.; ZEMTSOVA, T.Ye., tekhn.red.

[Manual of marine hydrochemical investigations for hydro-
meteorological observatories and marine hydrometeorological
stations] Rukovodstvo po morskim gidrokhimicheskim issledo-
vaniyam; dlia gidrometeorologicheskikh observatorii i morskikh
gidrometeorologicheskikh stantsii. Pod red. L.K.Blinova. Moskva,
Gidrometeor.izd-vo (otd-nie), 1959. 255 p.

(MIRA 14:6)

1. Moscow. Gosudarstvennyy okeanograficheskiy institut. 2. Labo-
ratoriya khimii morya Gosudarstvennogo okeanograficheskogo
instituta (for Blinov, TSurikova, Pakhomova, Sopach).

(Water--Analysis)

S/277/63/000/001/004/017
A052/A126

AUTHORS: Kirillova, Ye. P., Asovskaya, Z. N.

TITLE: Friction materials paired with low-carbon steel

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 48. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin, no. 1, 1963, 5, abstract 1.48.28 ("Vestn. tekhn. i ekon. inform. N.-i. in-t tekhn.-ekon. issled. Gos. kom-ta Sov. Min. SSSR po khimii", no. 3, 1962, 30 - 32)

TEXT: Friction properties of woven, cast, pressed and rolled materials paired with C415-32 (Sch 15-32) cast iron and CT.35 (st.35) steel were investigated. 22 x 27 x 6 mm samples were tested on a unified constant friction machine at 100 - 120°C, 7.5 m/sec sliding speed and 2.7 kg/cm² specific pressure. The results of the tests are summarized in a table. It is established that woven and rolled bands cannot work at elevated temperatures since at 200 - 240°C the coefficient of friction decreases. Cast material ОК-24a (FK-24a) at 100 - 120°C has a lower coefficient of friction than woven and rolled bands,

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Friction materials paired with low-carbon steel

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but at a higher temperature has a stable coefficient of friction and a good wear resistance.

[Abstracter's note: Complete translation]

Card 2/2

KERILLOVA, Ye.P.

Regime of chlorine, alkalinity, and oxygen in the mouth of the
Southern Bug. Trudy GOIN no.83:158-171 '65. (MIRA 18:9)

KIRILLOVA, Ye.Ye.

~~Reconditioning TK-190 slubbing machine eccentrics.~~ Obm.tekh.
opyt. [MLP] no.16:72-73 '56. (MIRA 11:11)
(Spinning machinery--Maintenance and repair)

L 13124-63

BDS

8/122/63/000/004/001/006

H8

AUTHOR: Kirillovskiy, Yu. I., Candidate of Technical Sciences, and
~~Parabanko, G. V.~~, Engineer

TITLE: Calculation of acceleration of a system with a hydrodynamic clutch 17

PERIODICAL: Vestnik mashinostroyeniya, no. 4, 1963, 9-14

TEXT: Hydrodynamic clutches (couplings) are widely used in drive mechanisms of pumps, centrifuges, and other mechanical equipment and in transmissions of automobiles and other vehicles. The basic merit of hydraulic clutches is the capability of acceleration of a system with large moments of energy without overloading the motor. For design of drive mechanisms, besides the determination of the parameters of a steady operation, it is especially important to also estimate the indicators of transition processes. Pertaining to this, the time of acceleration of a system and the nature of the change according to time of the angular velocities and moments of the motor and of the driven machine are considered. Calculation of transition processes also allows one to determine the

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Calculation of acceleration ...

quantity of heat liberated in a hydraulic clutch in the time of acceleration, which is necessary to fulfill its heat balance. A diagram of a drive mechanism with a hydrodynamic clutch is presented, where ω_1 and M_1 -- the angular velocity and moment of the motor, J_1 -- moment of energy of the driving part of the assembly referred to the entry of the shaft, ω_2 and M_2 -- angular velocity and moment of the dependant mechanism, J_2 -- the moment of energy of the dependant parts of the assembly referred to the exit of the shaft. The process of acceleration of such a system was divided for a general case into three periods (I, II, III), which are individually examined. The characteristics of the elements of the assembly with a hydrodynamic clutch are graphically shown for the motor and for typical forms of the dependant mechanisms. The types of dimensionless characteristics of a hydrodynamic clutch during acceleration of the dependant mechanisms are given. The method of calculation of the working parameters of a system during acceleration is graphically presented, as well as the change of the working parameters of a system according to time during acceleration and in relation to the acceleration of the motor. A method of simplified calculation

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Calculation of acceleration...

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of the change of the parameters of a system according to time during acceleration is given. With aid of this graphical data, a four step order of calculations is recommended for the correlations of the angular velocities and moments of a system with a hydrodynamic clutch. For a given case of an assembly of a hydrodynamic clutch, the time of acceleration is somewhat reduced and the start-up is significantly alleviated because without a hydraulic clutch the motor works in an unstable side of its characteristics beyond 50 sec., but with a hydraulic clutch -- no more than 5 sec. The presented method with small modifications is applicable for the calculation of the acceleration of a system with a torque converter. There are 9 figures and 2 non-English language references.

Card 3/3

KIRILLOVA, YU. M.

USSR/ Chemistry - Physical chemistry

Card : 1/1

Authors : Doryagin, B. V., Memb. Corres. of Acad. of Sc. USSR, Krotova, N. A. and Kirillova, Yu. M.

Title : Adhesion of high-polymers to glass and its dependence upon pressure and nature of the surrounding gas medium

Periodical : Dokl. AN SSSR, 97, Ed. 3, 475 - 478, July 21, 1954

Abstract : A method of determining the discharge potential, discharge gaps and surface density of electrization, by studying the polymer-glass adhesiograms, is described. The effect of pressure and nature of the surrounding gas on the adhesion of high-polymers to glass was determined by the Paschen law. By studying the effect of various factors, including the molecular structure of the adhesive and liner, it is possible to make a rational selection of gluing and lacquer forming polymers and form conditions increasing the adhesion. Eight USSR references. Graphs.

Institution : Acad. of Sc. USSR, Institute of Physical Chemistry

Submitted : May 12, 1954

KROTOVA, N.A.; KARASEV, V.V.; KIRILLOVA, Yu.M.

Study of adhesion. Trudy Inst. fiz. khim. no.6:111-122 '57.
(Adhesion) (MIRA 11:10)

KIRILLOVA, Z. A.

USSR/Medicine - Electricity
Medicine - Sleep

Jun 48

"The Problem of Sleep, Narcosis and Lethargy Induced by Electricity," Prof V. A. Gilyarovskiy, Prof I. F. Sluchevskiy, N. M. Liventsev, Z. A. Kirillova, Inst Psychiatry, Acad Med Sci, 5 3/4 pp

"Klin Med" Vol XXVI, No 6

Describes induction of narcosis and lethargy in dogs and human beings by alternating currents. Gives details of surgical operations performed under such conditions.

PA 11/49758

KIRILLOVA, Z.A.

GILYAROVSKIY, Vasily Aleksyevich, 1875- ; LIVENTSEV, N.M.; SEGAL', Yu.B.;
KIRILLOVA, Z.A.

[Electric sleep; clinical and physiological study] Elektroson; kliniko-
fiziologicheskoe issledovanie. Moskva, Medgiz, 1953. 125 p. (MLBA 6:11)
(Electrotherapeutics) (Sleep)

KIRILLOVA, Z.A., nauchnyy sotrudnik; KORGANOVA, A.N., kandidat meditsinskikh nauk; SKVIN', E.Ya., kandidat meditsinskikh nauk; FEDOTOV, D.D., do-tsent, direktor; SIMSON, T.P., professor, zaveduyushchiy detskim otdelom Gilyarovskiy, V.A., deystvitel'nyy chlen Akademii meditsinskikh nauk, SSSR nauchnyy rukovoditel'.

Results of electric sleep therapy in a children's psychiatric clinic. Vop. pediat. 21 no.2:18-21 Mr-Ap '53. (MLRA 6:6)

1. Akademiya meditsinskikh nauk SSSR (for Gilyarovskiy). 2. Nauchno-is-sledovatel'skiy institut psikhologii Ministerstva zdravookhraneniya SSSR. (Sleep) (Psychoses)

KIRILLOVA, Z. A.

Dissertation: "Electrosleep Combined with Insulin in the Treatment of Mental Diseases."
Cand Med Sci, Second Moscow State Medical Inst imeni I. V. Stalin, Moscow, 25 Jun 54.
(Meditsinskiy Rabotnik, Moscow, 15 Jun 54)

SO: SUM 318, 23 Dec 1954

LIVENTSEV, Nikolay Mitrofanovich; ABRIKOSOV, Ivan Alekseyevich; ~~KIRILLOVA,~~
~~Zinaida Alekseyevna~~; AVERBAKH, M.M., red.; POPRYADUKHIN, K.A.,
tekhn. red.

[Electricity in the service of health; treatment by light and
electricity] Elektrichestvo na sluzhbe zdorov'ia; o lechenii
svetom i elektrichestvom. Moskva, Gos. izd-vo med. lit-ry, 1956.
59 p. (MIRA 11:7)

(ELECTROTHERAPEUTICS)

IVANOVA, Tat'yana Ivanovna; KIRILLOVA, Zinaida Alekseyevna; RABICHEV,
Lev Yakovlevich; SKORBILINA, T.N., red.; POGOSKINA, M.V.,
tekhn. red.

[Insomnia; treatment and prevention] Bessonnitsa; lechenie i
preduprezhdenie. Moskva, Medgiz, 1960. 36 p. (MIRA 15:1)
(INSOMNIA)

KIRILLOVA, Z. S.

(R3)

PLATE I BOOK DESCRIPTION

807/1955

Современные проблемы электротехнической техники. Moscow, 1958.

Электротехническая техника. Труды научно-исследовательского института электротехнической техники (Электротехнический институт Академии Наук СССР), 1958. 205 с. 4,150 копеек. Printed in Moscow.

Author: Kirilova, Z. S. Editor: Kirilova, Z. S. Publisher: Kirilova, Z. S. Moscow, 1958. 205 p. 4.150 rubles.

ABSTRACT: This collection of articles is intended for engineers and technicians working in the field of electrical engineering and is concerned with electrical contact materials. It may also be useful to scientific research in electrical engineering.

CONTENTS: This book comprises reports delivered at the Electric Contacts Conference held in Moscow in November, 1957. The reports cover some typical processes occurring during the production of electrical contact materials and the methods of their testing. The author describes arrangements and equipment he has used in this investigation. He gives the results of the study as well as the characteristics of the most used compositions.

III. PRODUCTION AND CHARACTERISTICS OF CONTACT MATERIALS
Bakshina, I. G. Institute of Automation and Telemechanics, Academy of Sciences, USSR) Characteristics of some electrical contact materials. 284

The author describes arrangements and equipment he has used in this investigation. He gives the results of the study as well as the characteristics of the most used compositions. 284

Shubnyy, I. A. (IIL - Art. author) Near resistance of tungsten contacts 279
The author describes his investigation of the tungsten contacts relative to the effect of lateral structure and method of production on resistance in vacuum. 279

Dov, V. V. and Pervodvornyy, M. D. (Institute of Electrical Engineering, Institute for the Study of Electrical Engineering) Electrical Engineering Institute for the Study of Electrical Engineering. 289
A description of experiments on the above problem is presented. 289

Andriyevskiy, A. B. (Institute of Electrical Engineering, Institute for the Study of Electrical Engineering) Institute for the Study of Electrical Engineering. 275
The author analyzes the characteristics and resistance to corrosion and mechanical wear of various alloys composed of metals. 275

Shilovskiy, S. B. Alloys for electric contacts with small contact resistance 267
The author specifies the standard series alloys for sliding contacts operating with small currents and constant pressure. The composition, structure, and properties of the alloys are given. The author also discusses the methods of their production, mechanical and electrical characteristics, and cost. 267

Yermolenko, V. G. Application of new materials for sliding contacts in SSP systems (Self-energizing systems) 279
The author specifies the new series standard sliding contacts, discussing their characteristics and application. 279

Bliznyuk, V. A. Survey of Experimental Research on Contact Materials from Production Metals 292
This is a brief report on Soviet standard production alloys PDB-40, PDB-40, PDB-10, and PDB-12. 292

Dobryy, V. S. State of the Production and Standardization of Contacts and Contact Materials from Production Metals 293
The author describes briefly the developments obtained in the production of contacts made from alloys of various metals. Considering the great number of contact and contact types, the author expresses the opinion that a standardization of types is necessary. He suggests the creation of a special organization for the coordination of scientific research activities on contacts of all kinds and the standardization of metals and alloys used in them. 293

DISCUSSION
In the general discussion participated besides the authors of the above articles, L. B. Malchuk (IIL ZP), N. S. Kuznetsov (IIL ZP), Ya. V. Podolskiy (IIL ZP), and others. 297

Author: Kirilova, Z. S. Editor: Kirilova, Z. S. Publisher: Kirilova, Z. S. Moscow, 1958. 205 p. 4.150 rubles.

SOTSKOV, B.S.; USOV, V.V.; KUZNETSOV, R.S.; DEKABRUN, I.Ye.; KIRILLOVA, Z.S.;
VORONIN, K.P., tekhn.red.

[Electric contacts; proceedings of the conference, November 26-28,
1956] Elektricheskie kontakty; trudy soveshchaniia, 26-28 noiabria
1956 g. Red. kollegiia: B.S. Sotskov i dr. Moskva, Gos. energ. izd-vo ,
1958. 303 p. (MIRA 12:2)

1. Soveshchaniye po elektricheskim kontaktam. Moscow, 1956.
(Electric contactors)

SOTSKOV, B.S., otv.red.; USOV, V.V., red.; KUZNETSOV, R.S., red.;
ZOLOTYKH, B.N., red.; DEKABRUN, I.Ye., red.; KIRILLOVA, Z.S.,
red.; VORONIN, K.P., tekhn.red.

[Electrical contacts; transactions of the All-Union Conference
on Electrical Contacts and Materials for them] Elektricheskie
kontakty. Trudy Vsesoiuznogo soveshchania po elektricheskim
kontaktam i kontaktnym materialam. Red.kollegiia: B.S.Sotkov
i dr. Moskva, Gos.energ.isd-vo, 1960. 423 p. (MIRA 13:10)

1. Vsesoyuznoye soveshchaniye po elektricheskim kontaktam i
kontaktnym materialam. 2d, Moscow, 1959.
(Electric contactors)

USOV, Vladimir Vasil'yevich[deceased]; DEKABRUN, I.Ye., red.;
KIRILLOVA, Z.S., red.; POVOLOTSKAYA, M.D., red.; LARIONOV,
G.Ye., tekhn. red.

[Metals for electrical contacts] Metallovedenie elektriche-
skikh kontaktov. Moskva, Gosenergoizdat, 1963. 207 p.

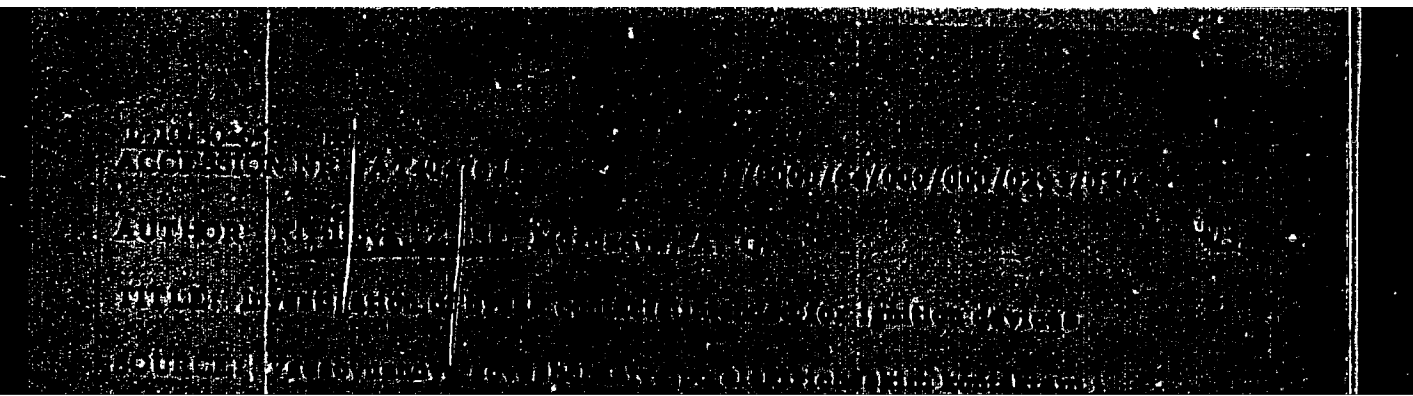
(MIRA 16:6)

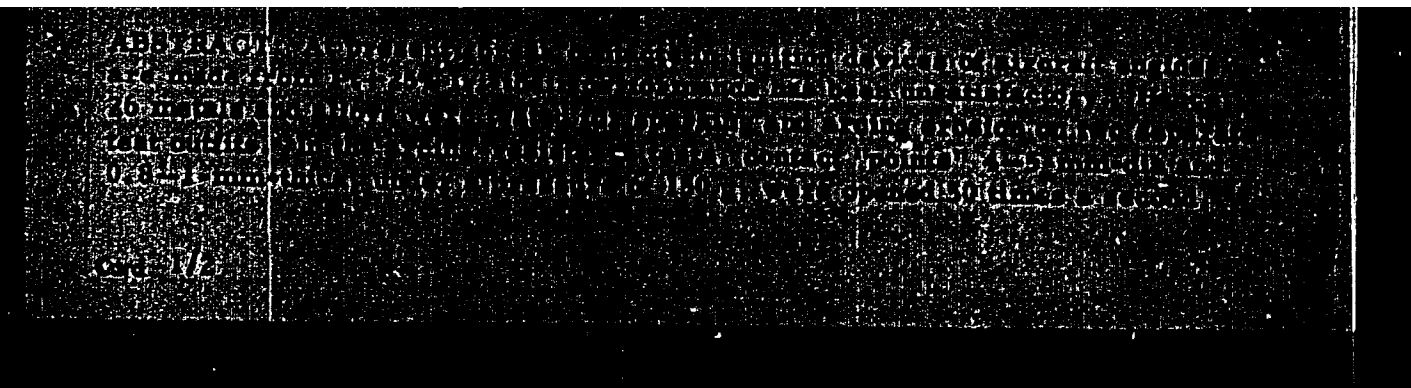
(Electric contactors)

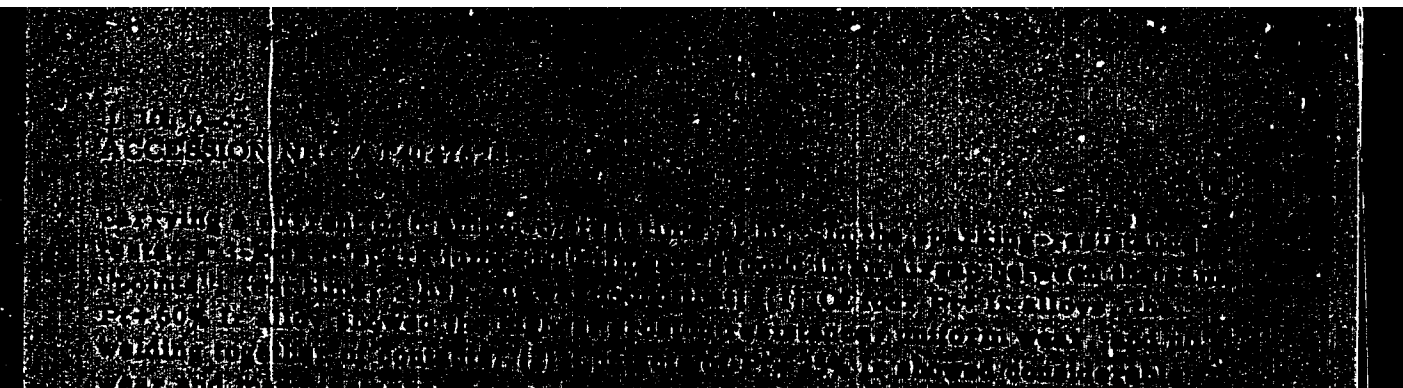
SOLOVYOV, B.S., ed.; DEKABRUN, I.Ye., ed.; DOLGOYKH, B.M.,
ed.; KUZNETSOV, R.S., ed.; KIRILLOVA, Z.S., ed.;
SHURGVA, Yu.P., ed.

[Electric contactors; transactions] Elektricheskie kon-
takty; trudy. Red. koll. B.S.Sotikov i dr. Moskva,
Energlia, 1964. 502 p. (MIRA 17:8)

1. Vsesoyuznoye soveshchaniye po elektricheskim kontaktam
i kontaktnym materialam. Bd, Moscow, 1962.







S/081/61/000/021/050/094
B110/B101

AUTHOR: Kirillova-Georgiyeva, D.

TITLE: Swelling cement based on high-alumina clays

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 311, abstract
21K308 (Tsement, no. 1, 1961, 9 - 13)


TEXT: A swelling cement (SC) has been obtained in Bulgaria on the base of Portland cement clinker, and expanding additive consisting of three basic components: calcined high-alumina clay, air-slaked lime, and gypsum. The clinker-to-additive ratio was 70:30. The volume of SC is increased by storing in water, moist air, and air. The degree of expansion depends on the composition of the solution and on the storing conditions. The strength of SC tested in solution of great consistency while being lower than that of initial cement in the first days of hardening, becomes equal to it after six months. The strength of SC in plastic solutions is considerably lower than that of initial cement (50-60% after 28 days, 85% after 15 months). SC samples subjected to 150 freezing-and-thawing cycles had a greater compressive strength than before freezing. SC proved to be

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Swelling cement based on high alumina clays

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stable against megnesia and sulfate corrosion (except for 1% Na_2SO_4 solution). SC is normally impervious to water and more strongly bound to the reinforcement. The strength of SC concrete with a cement consumption of 400 kg/m^3 attained 50% of the initial cement strength during the early time of hardening, and rose to 93% after three months. [Abstracter's note: Complete translation.]



Card 2/2

KIRILLOVICH, M. M.

Works of the All-Union Peat Institute, (Min of Agri. RSFSR),

Number 4, 1933, 111 pages, A Compendium of Instruction on the Study of peat and Peat Beds:

Part 1. The Geobotanical Analysis of Peat.

"Instructions for Determining the Botanical Composition of Peat."
by Korotkins, M. Ya, and Kirillovich, M. M.

SO: Botanicheskiy Zhurnal, Vol XXXV, No 1, pp 100-110,
Jan-Feb 1950, Russian bimonthly, Moscow/Leningrad (U-5511,
12 Feb 1954)

KIRILLOVSKIY, G. S.

7682. KIRILLOVSKIY, G. S. -- Otdelka obuvu. kiyev, Gostekhizdat USSE, 1955. 99.
c. c ill. 20 sm. 1.500 ekz. 2k. 4OK. Bibliogr. v kontse k 1:1--(55-3933)p
685.31.02t(016.3)

SO: Knizhnaya Letopsis', Vol. 7, 1955

KIRILLOVSKIY, G. S.

"Technology of footwear" by E. M. Ostrovitianov, B. IA. Ivanov.
Reviewed by G. Kirillovskii. Leg.prom. 17 no.8:50-51 Ag '57.

(MIRA 10:10)

(Shoe industry)

KIRILLOVSKIY, G.S.

KATS, S.A.; KIRILLOVSKIY, G.S.; CHERKASSKIY, S.A.

Organizing a conveyer system in the punching shop of the Kiev Steel
Factory No.6. Leg. prom. 18 no.1:42-45 Ja '58. (MIRA 1:2)
(Assembly line methods) (Punching machinery)

OSTROVSKIY, Ya.M. [Ostrovskiy, IA.M.]; SERDYUKOV, I.I.; KATS, Yu.M.;
KOZACHUK, A.I.; TURZHANSKIY, Yu.V. [Turzhansk'kiy, IU.V.];
SNIGUR, I.I. [Snigur, I.I.]; KIRILLOVSKIY, G.S. [Kyrillovsk'kiy,
H.S.]; BRON, S.S.; PESIS, Ye.I. [Pesis, E.I.]; SHUL'GA, A.M.
[Shul'ga, A.M.]

Proposals of efficiency promoters. Leh.prom. no. 4:81-88
O-D '63. (MIRA 17:5)

1. Khar'kovskaya obuvnaya fabrika (for Ostrovskiy, Serdyukov, Kats).
2. Zhitomirskaya obuvnaya fabrika (for Kozachuk, Turzhanskiy, Snigur).
3. Kiyevskaya obuvnaya fabrika No. 6 (for Kirillovskiy, Bron, Pesis, Shul'ga).

KIRILLOVSKIY, Yu. L.

ROZHDESTVENSKIY, S.N., kandidat tekhnicheskikh nauk; SHENFINKEL', Yu.I.,
inzhener; KIRILLOVSKIY, Yu.L., inzhener.

Accelerated motion of rotating bodies in viscous fluids at low
speeds. [Trudy] MVTU no.18:59-68 '53. (MLRA 7:12)
(Disks, Rotating) (Hydrodynamics)

KIRILLOVSKIY, Y. L.

124-11-12727

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p. 57 (USSR)

AUTHOR: Kirillovskiy, Yu. L.

TITLE: The Energy Balance and Calculation of Water-Jet Devices.
(Balans energii i raschet vodostruynykh apparatov)

ABSTRACT: Bibliographic entry of the A. 's Dissertation for the Degree of
Candidate of Technical Sciences. Moscow Technical College *in, Sverdlov*
(Mosk.vyssh.tekhn. uch-shche) Moscow, 1957.

ASSOCIATION: Moscow Technical College, (Mosk.vyssh.tekhn. uch-shche)
Moscow, 1957

Card 1/1

KIRILLOVSKIY, Y. L.

124-58-6-6682

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 6, p 54 (USSR)

AUTHORS: Podvidz, L. G., Kirillovskiy, Y. L.

TITLE: On the Design of Jet Devices for Pumping Water out of Artesian Wells (K voprosu o raschete struynykh apparatov dlya pod'yema vody iz artezianskikh skvazhin)

PERIODICAL: V sb.: Gidromashinostroyeniye. (MVTU, Vol 71), Moscow, 1957, pp 3-14

ABSTRACT: Water-lifting devices for artesian wells of medium depth (about 60-70 meters) consisting of a centrifugal pump on the surface and a water-jet apparatus located in the well and fed by the surface pump are discussed. Two schematic arrangements of such water-lifting devices are given, which differ in the location of the water-jet apparatus (upstream and downstream of the pump). The procedure of matching the pumps and the water-jet apparatus is described with a view of obtaining the greatest possible efficiency for the water-lifting installation; graphical methods for the design analysis of a complete installation including the piping are provided for varying conditions of the hydraulic operation.

Card 1/1 1. Jet pumps--Design 2. Centrifugal pumps-- V. A. Arkhangel'skiy Applications

PODVIDZ, L.G., kand.tekhn.nauk; KIRILLOVSKIY, Yu.L., kand.tekhn.nauk;
KASHEKOV, L.Ya., inzhener.

Theoretical principles of designing jet apparatus for pumping water
from deep wells. Nauch. trudy VIESKH 6:5-27 '59. (MIRA 13:12)
(Jet pumps)

KIRILLOVSKIY, Yu.L., kand.tekhn.nauk; YAREMENKO, O.V., inzh.

Calculating the speeding-up of a system with a hydrodynamic clutch.
Vest.mashinostr. 43 no.4:9-14 Ap '63. (MIRA 16:4)
(Mechanical movements)

HERELMAN, K. G.

33320. Na Osnovakh Mikhurin'skoy Nauki. (Nauch.-Issled. Rabota Moldav. Opytnoy
Flodovino-radnoy Stantsii). Vinodeliye I Vinogradarstvo Moldavii, 1949,
No. 5 S. 22-25.

SO: Letopis' Zhurnal'nykh Statey Vol. 45, Moskva, 1949

LUGOVAYA, L.V.; SAL'NIKOVA, G.P.; KIRILLYUK, M.L.; SHAPIRO, S.L.

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SOV/20-128-1-23/58

TITLE:

Phosphorylated Chlorovinyl Ketones. Production of Phosphorylated Chlorovinyl Ketones From Vinyl Acetate and Isopropenyl Acetate

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 1, pp 89-91 (USSR)

ABSTRACT:

The present paper gives the results obtained by investigation of the reaction of phosphorus pentachloride with enol acetates - vinyl acetates and isopropenyl acetates. By means of this reaction which readily takes place, the first representatives of a new group of phosphor-organic compounds - the phosphorylated β -chlorovinylketones - were obtained. The following were prepared: α -acetyl- β,β -dichloro ethyl phosphinic acid chloride, diethyl ester of the α -acetyl- β,β -dichloro ethyl phosphinic acid in the presence of a base and pyridine, diethyl ester of the α -acetyl- β -chlorovinyl phosphinic acid, α -acetyl- β -chloro propenyl phosphinic acid chloride, and diethyl ester of the α -acetyl- β -chloropropenyl phosphinic acid. The newly obtained kinds of phosphoric-organic compounds will be used for various syntheses characteristic of β -chlorovinyl ketones. In the first place, however, they will be employed for the production of phosphorylated heterocyclic compounds of the pyrazole-,

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Phosphorylated Chlorovinyl Ketones. Production of SOV/20-128-1-23/58
Phosphorylated Chlorovinyl Ketones From Vinyl Acetate and Isopropenyl Acetate
isoxazole-, and pyridine series.

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