

L 38425-66

ACC NR: AP6024386

registering meteorological measurements, instruments for studying the microphysical characteristics of clouds, and equipment for seeding clouds with solid and liquid reagents. At present the Experimental Meteorological Polygon has the capability of solving not only weather-modification problems but other pressing meteorological tasks as well. Agrometeorological research is already well advanced, and problems on the determination of the weather—harvest interrelationship are being implemented. Present plans call for a number of mesometeorological studies to be started soon. Orig. art. has: 1 figure. [ER]

SUB CODE: 04/ SUBM. DATE: 01Mar66/ ORIG REF: 001/ bTH REF: 001
ATD PRESS: 5043

Card 4/4

PRIKHOT'KO, G.F., doktor geograf. nauk

Experience in working out the approximate criterion determining the possibility of producing artificial precipitation from cumulus clouds in the Ukrainian S.S.R. Meteor. i gidrol. no.10:36-38 0 '65. (MIRA 18:9)

1. Ukrainskiy nauchno-issledovatel'skiy gidrometeorologicheskiiy institut.

PRIKHOT'KO, G.F.; YASHOVSKAYA, Z.M.

Frequency of thick convection clouds over the Ukraine. Trudy UkrNIGMI
no.47:65-68 '65. (MIRA 18:7)

SAPOZHNIKOVA, S.A., doktor geogr. nauk, prof., red.; GUK, N.I.,
nauchn. sotr., red.; KEKUKH, A.M., nachn. sotr., red.;
KAGANER, M.S., nachn. sotr., red.; PRIKHOT'KO, G.F.,
nachn. sotr., red.; CHERNOV, N.P., red.

[Atlas of agricultural climatology of the Ukrainian S.S.R.]
Agroklimaticheskii atlas Ukrainskoi SSR. Kiev, Urozhai,
1964. 36 p. (MIRA 18:7)

1. Kiev. Ukrainskiy nachno-issledovatel'skiy gidro-
meteorologicheskii institut. 2. Direktor Ukrainskogo
nachno-issledovatel'skogo gidrometeorologic. eskogo insti-
tuta, Kiev (for Prikhot'ko). 3. Ukrainskiy nachno-
issledovatel'skiy gidrometeorologicheskii institut, Kiev
(for Guk, Kekukh, Kagane:).

BAKHRUSHIN, V.A.; BONDAREV, A.Ye.; PRIKHOZHAN, A.Ye.; YAKIMOV, P.I.

Overall mechanization of the assembling of structural elements.
Prom. stroi. 41 no.2:17-20 F '64. (MIRA 17:3)

1. "rest Volgogradorgstroy (for Bakhrushin, Prikhozhan). 2. Upravleniye Yuzhstal'konstuktsiya (for Bondarev). 3. Gosudarstvennyy institut po proyektirovaniyu, issledovaniyu i ispytaniyu stal'nykh konstruktsiy i mostov (for Yakimov).

SHAMRAY, Ye.F. [Shamrai, I.E.F.]; VEREMEYENKO, K.N. [Veremienko, K.M.];
KHMELEVSKIY, Yu.V. [Khmelievs'kyi, I.U.V.]; PRIKHOZHAN, V.L.
[Prykhozhan, V.L.]

Mechanism of ascorbic acid stabilization by proteins and amino
acids in solution. Ukr.biokhim.zhur. 31 no.1:118-126 '59.
(MIRA 12:6)

1. Department of Biochemistry of the Kiyev Medical Institute.
(ASCORBIC ACID) (PROTEINS) (AMINO ACIDS)

PRIKHOZHAN, V. M.; SHREYBERG, G. L. (Moskva)

Functional state of the pituitary-adrenal system in myasthenia.
Vrach. delo no. 3:79-84 Mr '62. (MIRA 15:7)

1. Klinika nervnykh bolezney (zav. - prof. V. V. Mikheyev)
1-go meditsinskogo instituta imeni Sechenova i laboratoriya
neyrogumoral'noy regulyatsii (zav. - chlen-korrespondent AN SSSR
N. I. Grashchenkov, rukovoditel' problemy - doktor med. nauk
L. B. Perel'man) Instituta vysshey nervnoy deyatel'nosti i
neyrofiziologii AN SSSR.

(ADRENAL GLANDS) (PITUITARY BODY)
(MYASTHENIA GRAVIS)

PRIKHOZHAN, V.M.

Pathogenesis of myasthenia. Trudy 1-go RMI 242151-168 '63
(MIRA 27:3)

PEREL'MAN, L.B.; PRIKHOZHAN, V.M.; MATLINA, E.Sh.

Mechanism of the action of some anticholinesterase preparations. Biul. eksp. biol. i med. 53 no.5:76-80 My '62.
(MIRA 15:7)

1. Iz laboratorii neyro-gumoral'noy regulyatsii (zav. - chlen-korrespondent AN SSSR N.I. Grashchenkov) Instituta vysshey nervnoy deyatel'nosti AN SSSR i iz Kliniki nervnykh bolezney (zav. - prof. V.V. Mikheyev) I Moskovskogo meditsinskogo instituta, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR S.Ye. Severinym.

(CHOLINESTERASES) (MYASTHENIA GRAVIS)

MATLINA, E.Sh.; PRIKHOZHAN, V.M.

Method for determining cholinesterase in the blood. Lab. delo 7
no.6:10-12 Je '61. (MIRA 14:7)

1. Laboratoriya neyro-gumoral'noy regulyatsii Instituta vyshey
nervnoy deyatel'nosti AN SSSR i klinika nervnykh bolezney I Moskov-
skogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.
(CHOLESTERASE)

ACCESSION NR: AT4041503

S/2910/63/003/01-/0129/0137

AUTHOR: Ivanova, A. V., Ivanova, A. N., Prikhozhenko, A. I., Pyatetskiy-Shapiro, I. I., Tarnopol'skiy, B. L.

TITLE: Calculation of the electron shells of some atoms by the Hartree - Fock method

SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 3, no. 1-2, 1963, 129-137

TOPIC TAGS: quantum mechanics, electron shell, Hartree Fock method, electron configuration, computer programming, single configuration approximation, field theory, boundary value problem, iteration procedure, lithium atom, nitrogen ion, photoionization

ABSTRACT: A program for computer solution of the classical Hartree-Fock, self-consistent field equations was written, using the single-configuration approximation and neglecting the influence of the ionizing electron. For a discrete spectrum the method centers around the iteration solution of the following type of equation:

$$\frac{d^2y}{dr^2} + V(r)y + \int_0^\infty G(r, r')y(r')dr' = \epsilon y \quad (1)$$

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ACCESSION NR: AT4041503

where

$$\begin{aligned} y(0), \quad y(\infty) &= 0, \\ \int_0^{\infty} y^2(r) dr &= 1. \end{aligned} \quad (2)$$

for the eigen values ξ . Helfond's method, as described by O. V. Lokutsiyevskiy (Uspekhi Matem. Nauk, XI, 3, (69), 224, 1956), is used for solution of the boundary value problem. The iteration procedure starts with $y^0(0) = 0$, and solves for $y^{(1)}(r)$ and ξ^1 , after which the integral portion of the equation is computed. From this a correction factor for the eigen value is obtained. A special iteration process is used for computation of $y_1(r, \xi)$ and $y_2(r, \xi)$ to obtain a convergent solution and prevent computer saturation. Four auxiliary subprograms are used and can be adapted to solutions for any state. The control program must be rewritten for each system separately. A similar program is used for continuous spectrum solutions. A separate subprogram is used to check the formation of the maxima of the normalization function for the continuous case. The program was used to compute wave functions of L_1 which are given in a table. The continuous spectrum wave functions were then used to compute the cross-sections of photoionization of the N^{+4} ion. Both ground and excited states are listed. Orig. art. has: 37 equations and 2 tables.

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR, Moscow (Institute of Chemical Physics, AN SSSR)

Cord 2/3

ACCESSION NR: AT4041503

SUBMITTED: 00

ENCL: 00

SUB CODE: GP,DP

NO REF SOV: 001

OTHER: 001

Card 3/3

KOCHO, V.S.; GRANKOVSKIY, V.I.; PERELOMA, V.A.; NAYDEK, V.L.; PRYADKIN,
L.L.; KULIKOV, V.G.; PRIKHCHENKO, A.Ye.; GRYZLOV, Ye.G.

Investigating heat transfer in very high capacity open-heart
furnaces. Stal' 25 no.12:1081-1085 D '65. (MIRA 18:12)

1. Kiyevskiy politekhnicheskij institut i Zhdanovskiy metallurgicheskij zavod im. Il'icha.

PRIKHOZHENKO, A.Ye.

Operation of open-hearth furnaces on natural gas. Metallurg
6 no.8:10-13 Ag '61. (MIRA 14:8)
(Open-hearth furnaces--Equipment and supplies)

KULIKOV, V.O.; BORNATSKIY, I.I.; ZABURIN, N.G.; BOROFEYEV, G.A.;
KAIJZHSKIY, Ye.A.; KAZAKOV, A.A.; KOVAL', R.F.; KOREVA, N.K.;
TRET'YAKOV, Ye.V.; TRUNOV, Ye.A.; Prinimali uchastiyz: AKHYZH, I.I.;
GORDIYENKO, V.V.; GRINEVICH, I.P.; GUBAR', V.F.; DOLINENKO, T.I.;
ZHERNOVSKIY, V.S.; ZHIGALOVA, Z.I.; KOMOV, N.G.; KURAFIN, B.S.;
OLESHKEVICH, T.I.; PRIKHOZHENKO, Ye.

Mastering the operations of 650- and 900-ton (mega - gram) capacity
open-hearth furnaces at the Il'ich metallurgical plant. Stal' 25
no.8:805-807 S '65. (MIRA 18:9)

1. DONNIIHERMET i Zhdanovskiy metallurgicheskiy zavod imeni Il'icha.

PRIKHOZHAN, V. M.

Functional state of the adrenal cortex myasthenia. Probl. endok.
i gorm. 8 no.3:86-88 My-Je '62. (MIRA 15:6)

1. Iz kliniki nervnykh bolezney (zav. - prof. V. V. Mikheyev)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I. M.
Sechenova i laboratorii neyro-gumoral'noy regulyatsii (i. o. zav. -
prof. G. N. Kassil', rukovoditel' problemy - doktor meditsinskikh
nauk L. B. Perel'man) Instituta vysshey nervnoy deyatel'nosti
AN SSSR.

(MYASTHENIA GRAVIS) (ADRENAL GLANDS)

RYAGUZOV, V.N.; PRIKHOZHAYEV, D.N.

Using compressed gas for the rapid suppression of the anode effect.
TSvet. met. 37 no.9:94-95 S '64. (MIRA 18:7)

PRIKHOZHENKO, Aleksandr Yemel'yanovich; TARSHIS, D.M., red.;
OBUKHOVSKAYA, G.P., tekhn. red.

[Heating open-hearth furnaces with natural gas] Otoplenie
martenovskikh pechel prirodnym gazom. Moskva, Metallurgizdat,
1963. 96 p. (MIRA 16:5)
(Open-hearth furnaces—Equipment and supplies)

KULIKOV, V.O.; PRIKHOZHENKO, A.Ye.; NEPEDOV, I.S.; GRYZLOV, Ye.G.;
FEDYUKIN, A.A.

Self-carburization of natural gas in a "thick" jet. Metallurg
9 no.9:10-11 S '64. (MIRA 17:10)

1. Metallurgicheskiy zavod im. Il'icha.

SHALAMOV, I.I.; DUBINSKIY Ye.N.; PRIKHOZHENKO, A.Ye.; PRIKHOZHENKO, G.Ye.

Transfer of heating furnaces from fuel oil to natural gas.
Metallurg 6 no.5:20-31 My '61. (MIRA 14:5)

1. Metallurgicheskiy zavod im. Il'icha.
(Furnaces, Heating)

DUBINSKIY, Ye.N.; PRIKHOZHENKO, A.Ye.

Heating furnaces converted to firing with natural gas.
Metallurg 5 no.8:31 Ag '60. (MIRA 13:7)

1. Zavod im. Il'icha.
(Furnaces, Heating) (Gas, Natural)

SMALAMOV, I.I.; DUBINSKIY Ye.N.; PRIKHOZHENKO, A.Ye.; PRIKHOZHENKO, G.Ye.

Transfer of heating furnaces from fuel oil to natural gas.
Metallurg 6 no.5:20-31 My '61. (MIRA 14:5)

1. Metallurgicheskiy zavod im. Il'icha.
(Furnaces, Heating)

ПРИКОЗНЕНКО, И. Е.

Agriculture

Cultivation of "makhorka" (nicotiana rustica) in the Saratov Province; (Saratov)
Saratovskoe obl. gos. izd-vo, 1951.

Monthly List of Russian accessions, Library of Congress, May 1952. UNCLASSIFIED.

ACC NR: AP6017956 (A) SOURCE CODE: UR/0413/66/000/010/0018/0018

AUTHOR: Loskutov, V. A.; Prikhozhiy, B. I.

ORG: None

TITLE: A device for installation and removal of large stamps on presses. Class 7, No. 181602

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 18

TOPIC TAGS: metal press, industrial automation

ABSTRACT: This Author's Certificate introduces: 1. a device for installation and removal of large stamps on presses. The unit contains a lifting platform and an attachment for transferring the stamp from the platform to the press. Accurate installation of the stamp on the press is ensured by a beam mounted on the lifting platform for moving the stamp along a roller conveyor in the platform and the backup plate in the press. This beam is equipped with a drive and a mechanism for centering and fastening the stamp on the roller conveyor. Also mounted on the platform is a mechanism for orienting the roller conveyor with respect to the press. 2. A modification of this device in which provision is made for lining up the axes of the stamp and roller conveyor while the stamp is in motion. The drive for the beam contains a transmission mechanism, e. g. a chain drive system combined with bevel and screw gears equipped with

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UDC: 621.983;621.979-783.65

ACC NR: AP6017956

a slip clutch which transmits reciprocal motion through lead screws. The beam has holding devices, one with a left hand thread and the other with a right hand thread mounted so that they move along a horizontal screw with double right and left hand thread. 3. A modification of this device in which provision is made for matching the axes of symmetry of the stamp and press. The mechanism for orienting the roller conveyor is made in the form of fingers mounted on a frame. These fingers go into holes in the backup plate on the press which is equipped with clamps to fit over the fingers and fix the position of the platform with respect to the press.

SUB CODE: 13/ SUBM DATE: 27Jan62

Card 2/2

USSR/Human and Animal Physiology - Action of Physical Factors. T-13

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32353

Author : Tkach, V.K., Prikhozhiy, I.I.

Inst : -

Title : Peculiarities of the Kinetics of the Electric Properties of Blood During Action on the Organism by Ultraviolet, Infrared Rays and High-Frequency Fields.

Orig Pub : V sb.: Tr. nauchnoy sessii, posvyashchenoy dostizheniyam i zadacham sov. biofiziki v s. kh. M., Izd-vo AN SSSR, 1955, 245-256.

Abstract : A change of the capacity of a measuring condensator filled with a solution of 0.6 ml of blood in 10 ml of water was registered during cooling of the solution at 1° for 30-50 minutes. The average rate of the process for the blood of a dog in normal conditions kept relatively permanent (dispersion of data not over 10-12%). During exposure of animals to ultraviolet rays (PRK-2 lamps), the average

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USSR/Human and Animal Physiology - Action of Physical Factors.

T-13

Abs Jour : Ref Zhur - Biol., No 7, 1958, 32353

rate of change of the capacity of the condensator during cooling of the solution increased sharply with small doses an hour after the effect. With large doses, the first break of the curve was directed to the side of the decrease of the rate of cooling off. Exposure to infrared rays caused a sharp increase of the rate, with a subsequent rapid rise to the norm. In the tests with the blood of dogs subjected to the action of a high-frequency field ($3 \cdot 10^7$ hertz), a sudden decrease of the rate was observed 50 minutes after the effect, its rise and time of return to the norm being proportional to the dose. By using numerous effects as conditioning stimuli, conditioned reflex changes of the indicator were obtained in a smaller proportion than were those which were caused directly by an effect.

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- 175 -

PRIKHOZHIIY, I. I.

TKACH, V.K.; PRIKHOZHIIY, I.I.

Changes in the hydration of the blood of dogs under the effect
of radiation energy. Biul. eksp. biol. i med. 37 no. 1:44-47 Ja '54.
(MLRA 7:3)

1. Iz laboratorii proizvodstvennogo mikroklimate (zaveduyushchiy -
dotsent V.K. Tkach) Ukrainskogo tsentral'nogo instituta gigiyeny
truda i profzabolevaniy, Khar'kov.
(Ultraviolet rays--Physiological effect)
(Infrared rays--Physiological effect) (Blood)

Trans. M-238, 7 Mar 55

PRIKHUNOVA, A.Ya.

USSR/Chemistry - Spectral analysis

Card 1/1 Pub. 43 - 70/97

Authors : Yakovlev, B. M., and Prkhunova, A. Ya.

Title : Spectral analysis of slag

Periodical : Izv. AN SSR. Ser. fiz. 18/2, page 286, Mar-Apr 1954

Abstract : A method of spectral analysis of slag was developed for the purpose of controlling the processes occurring in cupola and electrical furnaces. The three standards applied in the analysis of furnace slag are described. The method makes it possible to determine the basic components of slag within a period of one hour with an accuracy of no less than 5%.

Institution : The V. M. Molotov State Automobile Plant

Submitted :

SHEVCHENKO, A. (UB5CLX) (Chernovtsy); BASOV, V. (Moskva); PRILUTSKIY, G. (Pyatigorsk); ARKHIPOV, Ye. (Bugul'ma); VYSOCHIN, V. (Moskovskaya obl.); PRIKHUNOV, I. (Moskovskaya obl.); OBLASOV, G. (Kiyev); SMIRNOV, Yu. (UA4YB) (Kanash); KHOKHLOV, B. (Moskva); KHALDEYEV, A. (Przheval'sk); SKOBELEV, I. (Primorskiy kray); PROSKUROV, V. (Irkutsk); DOBRYNIN, Yu. (g.Ivanovo /obl./)

Exchange of experience. Radio no.10:22,26,29,32,37,40,44,46,58
0 '64. (MIRA 18:2)

PRIKIN, B. [Prykin, B.], inzh.

Centrifugal method of producing reinforced concrete elements.
Bud. mat. i konstr. 4 no.3:7-16 My-Je '62. (MIRA 15:5)
(Kharkov--Precast concrete)

BEHE, R.L.; PRIZONSKAY, S.G.; USPENSKAY, N.M.

Water birds of the Indigirka Delta and a more efficient use of
them. Ornitologiya no. 7:20-23 1955.

(MIRA 12 10)

IVANOV, F.V.; PRIKONSKIY, S.G.

Little bustard in the U.S.S.R. and measures for its protection in
winter. Ornitologii no.7:130-133 '65.

(MIRA 18*10)

AMBROS, R.; PRIKK, A.; MAGI, H., otv. red.

[Road pavements in the Estonian S.S.R.] Eesti NSV maanteede
katteid. Tallinn, Tallinna Polutehniline instituut, 1962. 81 p.
(MIRA 16:6)

(Estonia--Pavements)

FARKAS, K.; KOPPENSTEIN, E.; ~~PRIKKE~~ PRIKKE, A.

Diagnosis of lung tumors by lung puncture. Orv. hetil. 94 no.10:253-256
8 Mar 1953. (CIML 24:4)

1. Doctors. 2. Uzsoki-utcai Metropolitan Hospital (Director -- Dr.
Istvan Halasz).

FRIKKEL, Andor; FODOR, Anna

Sepsis caused by *Proteus mirabilis*. Orv hetil 95 no.14:388-389
Ap '54. (REAL 3:8)

1. A Fovarosí Uzsoki-utcai Kórház (igazgató: Farkas Karoly dr.) II. sz. Sebészeti Osztályának (főorvos: Prikkel Andor dr.) és Laboratóriumának (főorvos: Kertész Tivador dr.) közleménye.

(PROTEUS

**mirabilis* infect., septicemia)

(SEPTICEMIA AND BACTEREMIA

**Proteus mirabilis*)

PRIKLAD, L. L.

"Experimental Electroencephalography," *Neuroanatol. i. Psikhiat.*, 17, No. 4, 1948.

War. Psychiatric Clinic, Belorussian Med. Inst., -c1948-.

PRIKLADOV, N.

Planting trees in the winter in Siberia. Zhil.-kom. khoz.
12 no.1:13 Ja '62. (MIRA 15:6)
(Siberia--Tree planting)

PRIKLADOV, N., kandidat biologicheskikh nauk.

New type of storage for seed grain. Sel'.stroi. 11 no.9:
17-18 S '56. (MLRA 9:11)

(Grain--Storage)

PRIKLADOVA, N.V.; RYBAKOVA, S.N.

Raising late corn varieties for seed production. Biol. Sib. bot. sada
no. 5:36-46 '58. (MIRA 12:11)

1. Sibirskiy botanicheskiy sad pri Tomskom gosudarstvennom universi-
tete im. V.V. Kuybysheva. (Seed production)
(Tomsk Province--Corn (Maize))

PRIKLADOV, N.V.

Action of rays emitted by radium on sprouting wheat seeds. Biul. Sib.
bot.sada no.5:85-87 '58. (MIRA 12:11)

1. Sibirskiy botanicheskiy sad pri Tomskom gosuniversitete im.
V.V. Kuybysheva.
(Wheat) (Plants, Effect of radioactivity on)
(Germination)

PRIKLADOV, N.V., red.

[Siberian Botanical Garden] Sibirskii botanicheskii sad.
Tomsk, Izd-vo Tomskogo univ., 1961. 87 p. (MIRA 16:4)

1. Tomsk. Universitet.
(Botanical gardens)

PRIKLADOV, N.V.

Siberian Botanical Garden during the past 40 years. Binl.Sib.bot.sada
no.5:3-10 '58. (MIRA 12:11)
(Tomsk--Botanical gardens)

PRIKLADOVSKAYA, N.F.

Eucommia in cis-Carpathia. Biol.Glav.bot.sada no.32:12-13
'58. (MIRA 12:5)

1. L'vovskiy lesotekhnicheskii institut.
(Ukraine, Western--*Eucommia*)

PRIKADOVSKAYA, N.F.

Mezhenets forestry district as a site of introduction of the
red oak. *Biul.Glav.bot.sada* no.35:35-40 '59. (MIRA 13:2)

1. L'vovskiy lesotekhnicheskij institut.
(Mezhenets region--oak)

K-2

USSR / Forestry. Dendrology

Abs Jour: Ref Zhur-Biol, No 13, 1958, 58375

Author : Prikladovskaya, N. F.

Inst : L'vov Forest-Technical Institute

Title : The Northern (red) Oak in the Western Oblasts of the Ukraine

Orig Pub: Nauchn. tr. L'vovsk. lesotekhnich. in-t, 1957, 3, 227-233

Abstract: It is necessary to distinguish between the two externally similar European varieties of *Quercus borealis* (northern oak) and *Quercus rubra* (red oak); both were formerly called red oak. A morphological description of the northern and the red oak is given. A study of plantings of second and third age-grade

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USSR / Forestry. Dendrology

K-2

Abs Jour: Ref Zhur-Biol., No 13, 1953, 58375

northern oak, originating both from seeds and from shoots, was conducted on the territory of the western oblasts of the Ukrainian SSR. The northern oak in the western oblasts of the Ukraine grows faster than the local varieties of oaks, *Quercus robur* and *Quercus petraea*. The northern oak differs from the local species in being less demanding on the soil. It propagates easily both by seeds and by shoots. In many cases, the wood of the northern oak surpasses the wood of local varieties in its technical properties. --V. V. Protopopov

Card 2/2

DIMCHEV, D.; BURZEVA, L.; APRAKHAMIAN, G.; APOSTOLOV, L.; TSONEV, I.; PANITSA, D.; PRIKOLOGIN, M.; GENEVA, V.

On causes, appearance, clinical aspects, therapy and prophylaxis of organic phosphate poisoning in the rural industry in the Plovdiv region. Suvrem. med., Sofia 11 no. 2-3: 80-89 '60.

1. Iz VMI "I.P. Pavlov" - Plovdiv, i Okruzhnata sanitarno-epidemiologichna stantsia - Plovdiv.
(PHOSPHATES toxicol.)

NAZAREVSKIY, S.I.; MAKAROV, S.N.; PILIPENKO, F.S.; GERASIMOV, M.V.; IL'INSKAYA, M.L.; VEKSLER, A.I., [deceased]; VASIL'YEV, I.M.; IL'INA, N.V.; SOKOLOV, S.Ya.; LOZINA-LOZINSKAYA, A.S.; SAAKOV, S.G.; ZALESSEIY, D.M.; AVRCRIN, N.A.; IVANOV, M.I.; PRIKLADOV, N.V.; SOBOLEVSKAYA, K.A.; SALAMATOV, M.N.; MALINOVSKIY, P.I.; LUCHNIK, A.I.; KRAVCHENKO, O.A.; VEKHOV, N.K.; GROZDOV, B.V.; MASHKIN, S.; BOSSE, G.G.; PALIN, P.S. (g. Shuya, Ivanovskoy oblasti); MATUKHIN; ZATVARNITSKIY, G.F.; GRACHEV, N.G.; CHERKASOV, M.I.; KIRKOPULO, Ye.N.; LEVITSKAYA, A.M.; GRISHKO, N.N.; LIKHVAR', D.F. VIL'CHINSKIY, N.M.; LYPA, A.L.; OREKHOV, M.V.; SHCHERBINA, A.A.; TSYGANKOVA, V.Z.; BARANOVSKIY, A.L.; GEORGIYEVSKIY, S.D.; STEPUNIN, G.A. OZOLIN, E.P.; LUKAYTENE, M.K.; KOS, Yu.I.; VAIL'YEV, A.V.; RUKHADZE, P.Ye.; VASHADZE, V.N.; SHANIDZE, V.M.; MANDZHAVIDZE, D.V.; KORKESHKO, A.L.; KOLESNIKOV, A.I. (g. Sochi); SERGEYEV, L.I.; VOLOSHIN, M.P.; RYBIN, V.A.; IVANOVA, B.I.; RYABOVA, T.I.; GAREYEV, E.Z.; RUSANOV, F.N.; BOCHANTSEVA, Z.P.; BLINOVSKIY, K.V.; KLYSHEV, L.K.; MUSHEGYAN, A.M.; LEONOV, L.M.

Talks given by participants in the meeting. Biul.Glav.bot.sada no.15:
(MLRA 9:1)
85-182 '53.

1. Glavnyy botanicheskiy sad Akademii nauk SSSR (for Makarov, Pilipenko, Gerasimov, Il'inskaya, Veksler); 2. Akademiya komunal'nogo khozyaystva imeni K.D. Pamfilova for Vasil'yev); 3. Vsesoyuznaya sel'skokhozyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanicheskogo instituta imeni V.L. Komarova Akademii nauk SSSR (for Sokolov, Lozina-Lozinskaya, Saakov); 5. Botanicheskiy sad Leningradskogo
(continued on next card)

HAZAREVSKIY, S.L.---(continued) Card 2.

gosudarstvennogo ordena Lenina universiteta (for Zalesskiy); 6. Pol'yarno-Al'piyskiy botanicheskiy sad Kol'skogo filiala imeni S.M. Kirova Akademii nauk SSSR (for Avrorin); 7. Botanicheskiy sad pri Tomskom gosudarstvennom universiteta (for Ivanov); 8. Botanicheskiy sad pri Tomskom gosudarstvennom universiteta imeni V.V. Kuybysheva (for Prikladov); 9. Tsentral'nyy Sibirskiy botanicheskiy sad Zapadno-Sibirskogo filiala Akademii nauk SSSR (for Salamatov, Sobolevskaya); 10. Botanicheskiy sad Irkutsko gosudarstvennogo universiteta imeni A.A. Zhdanova (for Malinovskiy); 11. Altayskaya plodovo-yagodnaya opyt'naya stantsiya (for Luchnik); 12. Bashkirskiy botanicheskiy sad (for Kravchenko); 13. Lesostepnaya selektsionnaya opyt'naya stantsiya dekorativnykh kul'tur tresta Goszelenkhoz Ministerstva kommunal'nogo khozyaystva RSFSR (for Vekhov); 14. Bryanskiy lesokhozyaystvennyy institut (for Grozdov); 15. Botanicheskiy sad pri Voronezhskom gosudarstvennom universitete (for Mashkin); 16. Orekhovo-Zuyevskiy pedagogicheskiy institut (for Bosse); 17. Botanicheskiy sad pri Rostovskom gosudarstvennom universitete imeni V.M. Molotova (for Matukhin); 18. Botanicheskiy sad Kuybyshevskogo gorodckogo otdela narodnogo obrazovaniya (for Zatvarnitskiy); 19. Zoobotanicheskiy sad pri Kazanskom universitete (for Grachev); 20. Gosudarstvennyy respublikanskiy proektnyy institut "Giprokommunstroy" (for Cherkasov); 21. Botanicheskiy sad Odesskogo gosudarstvennogo universiteta imeni I.I. Mechnikova (for Kirkopulo); 22. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 23. Botanicheskiy sad
(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 3.

Akademii nauk USSR (for Grishko, Likhvar', Vil'chinskiy); 24. Kiyevskiy sel'skokhozyaystvennyy institut (for Lypa); 25. Botanicheskiy sad Chernovitskogo gosudarstvennogo universiteta (for Orekhov); 26. Botanicheskiy sad pri L'vovskom gosudarstvennom universitete imeni Iv. Franko (for Shcherbina); 27. Botanicheskiy sad Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo (for TSygan-kova); 28. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo instituta (for Baranovskiy); 29. Botanicheskiy sad Akademii nauk Belorusskoy SSR (for Georgiyevskiy); 30. Institut biologii Akademii nauk Belorusskoy SSR (for Stepunin); 31. Botanicheskiy sad Akademii Litovskoy SSR (for Lukaytene); 32. Botanicheskiy sad Latviyskogo gosudarstvennogo universiteta (for Ozolin); 33. Kabardinskiy krayevedcheskiy botanicheskiy sad (for Kos); 34. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Vasil'yev, Bukhadze); 35. Batsumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Shanidze); 36. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Mandzhavidze); 37. Sochinskiy park Dendrariy (for Korkeshko); 38. Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M. Molotova (for Sergeyev, Voloshin); 39. Krymskiy filial Akademii nauk SSSR (for Rybin); 40. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Ivanova); 41. Botanicheskiy sad Botanicheskogo instituta Akademii nauk Tadzhikskoy SSR (for Ryabova); 42. Botanicheskiy sad Kirgizskogo filiala Akademii nauk SSSR (for Gareyev); 43. Botanicheskiy (continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 4.

sad Akademii nauk Usbekskey SSR (for Husanov, Bochantseva); 44.
Botanicheskiy sad Akademii nauk Turkmenskoy SSR (for Blinovskiy);
45. Respublikanskiy sad Akademii nauk Kazakhskoy SSR (for Klyshev,
Mushegyan).

(Botanical gardens)

PRIKLAD.VSKAYA N.F.

Sweet gum (Liquidambar styraciflua) in Lvov. Biul.Glav.bot.
sada no. 48:39-42 '63. (MIRA 17:5)

1. L'vovskiy lesotekhnicheskij institut.

PRIKLADOVSKAYA, N.F.

Treelike lianas used for landscape work in Lvov. Biul.Glav.bot.
sada no.44:23-28 '61. (MIRA 15:2)

1. L'vovskiy lesotekhnicheskii institut.
(Lvov--Climbing plants)

PRIKLADOVSKAYA, N.F.

Exotic plants of the Bukachevtsy forest tract. Biul. Glav. bot.
sada no.54:32-36 '64.

(MIRA 17:11)

1. L'vovskiy lesotekhnicheskij institut L'vova.

I. 23221-66 EWT(m)/EWP(j) IJP(c) RM SOURCE CODE: UR/0133/65/000/004/0005/0008
ACC NR: AP6013594

24
B

AUTHOR: Priklonskaya, N. V.; Ostrovskaya, N. M.

ORG: Scientific Research Institute of the Rubber Industry (Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti); TSZL, "Caoutchouc" Plant (TSZL Zavoda "Kauchuk")

TITLE: Rational mixing conditions in the preparation of rubber mixtures based on butadiene-styrene rubber in the production of RTI

SOURCE: Kauchuk i rezina, no. 4, 1965, 5-8

TOPIC TAGS: synthetic rubber, butadiene styrene rubber, sulfur, resin, conveyer transportation system/SKS-30-ARKM butadiene styrene rubber

ABSTRACT: Various mixing conditions were studied for their effect on the properties of mixes and vulcanisates of butadiene-styrene rubber SKS-30ARKM, used for lining conveyor belts. Gaseous channel and furnace carbon black were included in the rubber mixture composition, and as accelerators — Altax (a dibenzothiazole disulfide) and diphenylguanidine. The mixtures were prepared at the Dnepropetrovsk Tire Plant under automatic cycling conditions in a high-speed, high-pressure resin mixer at a rotor revolution rate of 30/26.5 rpm under three sets of conditions. The volume load was 140 liters (165 kg). Carbon blacks and softening agents were added to the mixture simultaneously. Condition I involves the two-stage production of mixtures with cycles lasting three and two minutes, with separate introduction of sulfur and accelerators into the mother mixture at the second stage in the

UDC: 678.023.334.004.13

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ACC NR: AP6013594

same mixer. Sheeting of the mixtures following the first and second stages is carried out on two consecutive rollers 2130 mm long in 3 and 2.5 minutes, respectively. At the second stage, the mixtures are loaded into the mixture in the form of sheets after cooling on racks. Condition II is a single-stage process of preparing mixes, six minutes in length with accelerators loaded into the mixer at the start of the cycle together with all components. Sheeting of the mixtures following the mixer is carried out on three successively aligned rollers 2130 mm in length for six minutes after introduction of sulfur on the second rollers. Condition III is a variation of the single-stage preparation of mixtures at lower temperatures than in condition II (due to a reduction of mixing time to 4.5 minutes), and with sulfur loaded at the end of the cycle, 0.5 minutes before unloading. Sheeting of the mixtures is carried out also on three successive rollers, for 6 minutes. This set of conditions is being used at RTI plants. From the results of the study, it can be concluded that the poorest mixing conditions is that of condition III (sulfur is introduced into the rubber-mixer), in spite of the fact that the duration of intensive mixing from the moment that the upper lock opens in this case is almost the same as in condition I. In the case of condition III, uniform mixing of carbon black in the mixers is not provided for, and a low resistance of the subvulcanization of mixes is observed along with the lowest physico-mechanical indices of the vulcanisates. Orig. art. has: 1 figure and 3 tables. /JPRS/

SUB CODE: 11, 07 / SUBM DATE: none / ORIG REF: 004

Card 2/2 *HW*

PRIKOPA, J., inz.

"Capacitance differential position finders" by V. A. Acjukovskij
[Atsyukovskiy, V.A.]. Reviewed by J. Prikopa. Doprava no. 1:
3 of cover '64.

AFANAS'YEV, V.F.; PARITSKIY, L.G.; PRIKOT, N.F.; RYVKIN, S.M.

Effect of trapping levels on the lux-ampere characteristics in silicon. Fiz. tver. tela 5 no.11:3179-3182 N '63. (MIRA 16:12)

1. Fiziko-tekhnicheskiy institut imeni A.F.Ioffe AN SSSR, Leningrad.

NIKOLIC, Bozo, ing. (Zagreb); PRIKRIL, Matija, (Zagreb)

Accidents at work in the production and processing of coal in
Croatia. Kem ind 10 no.5:149-153 My '61.

PRILENSKIY, Yu. F., assistant

Alkaline reserve of the blood in acrichine "psychosis" in
animals. Trudy Novosib. gos. med. inst. 37:175-178 '61.
(MIRA 15:6)

(QUINACRINE—TOXICOLOGY) (PSYCHOSES)
(ACID BASE EQUILIBRIUM)

GOL'DENBERG, M. A., prof.; PRILENSKIY, Yu. F., assistant; KOROLENKO,
TS. P., assistant; TIMÓPEYEVA, A. S., assistant

Some problems of somatic disorders and of the pathogenesis of
acrichine "psychosis" in animals. Trudy Novosib. gos. med. inst.
37:203-219 '61. (MIRA 15:6)

(PSYCHOSES) (QUINACRINE--TOXICOLOGY)

DEMUSHKIN, A.I.; PRILEPIN, M.T.; FEL'DMAN, G.A.

SDD geodimeter. Geod. i kart. no.9:20-26 S'62.
(Geodimeter)

(MIRA 15:10)

ACCESSION NR: AP4013320

S/0020/64/154/003/0534/0537

AUTHOR: Prilepko, A. I.

TITLE: Inverse problem for ultraharmonic potential

SOURCE: AN SSSR. Doklady*, v. 154, no. 3, 1964, 534-537

TOPIC TAGS: integral equation, nonlinear integral equation, ultraharmonic potential, metaharmonic potential, Holder condition, harmonics, harmonic potential, harmonic potential problem

ABSTRACT: There is presented a solution to the inverse problem for an ultraharmonic potential. A body T_1 is sought which more or less approximates some functional metric to the exterior metaharmonic potential V for the given body T , provided that its exterior metaharmonic potential V_1 is known. It is assumed that the body T is star-shaped with respect to some one of its internal points, and that the boundary S of the body T is such that the functions of its parametric representation are twice differentiable and their second derivatives satisfy the Holder condition with index $\lambda < 1$. The following basic theorem is postulated: there exists a unique surface S_1 .

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ACCESSION NR: AP401:320

bounding the body T_1 which satisfies the condition $\|Y\| < d$, and which is such that the exterior metaharmonic potential of the body T_1 of a density of unity is equal to the given metaharmonic function V_1 in a domain which is exterior with respect to the surface S_1 .

Four theorems, which are used to prove the basic theorem, are then proved. "In conclusion author wishes to thank A.V. Bitsadze, under whose direction this work was carried out." Orig. art. has: equations.

ASSOCIATION: Institut matematiki s vy*chislitel'ny*m tsentrom Sibirskogo vtdeleniya akademii nauk SSSR (Institute of Mathematics with Computer Center, Siberian Division, Academy of Sciences, SSSR)

SUBMITTED: 13Aug63

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: MM

NR REF SOV: 002

OTHER: 002

Card 2/2

PRILEPSKIY, A.N., elektromekhanik

Useful advice. Avtom.telem. i sviaz' 4 no.11:41 B '60.

(MIRA 13:11)

1. Radiosvyaz' Verkhovskoy distant'sii signalizatsii i svyazi Moskovskoy dorogi.

(Electric batteries)

ACCESSION NR: AT3012816

S/2961/63/000/005/0224/0226

AUTHORS: Kolomeyets, Ye. V.; Prilepskiy, B. A.

TITLE: Differential inductive pressure pickup and automatic introduction of barometric correction to the intensity of cosmic rays

SOURCE: AN SSSR. Mezhdovedomst. geofizich. komitet. 7 razdel program. MGG: Kosmicheskiye luchi. Sb. statey, no. 5, 1963, 224-226

TOPIC TAGS: pressure pickup, barograph, inductive pressure pickup, differential pressure pickup, cosmic ray intensity, cosmic ray intensity correction

ABSTRACT: The pickup is designed to measure pressure accurate to 0.1 mb, while the accuracy of existing automatic recording barographs is no better than 1 mb. In addition, in the newly developed apparatus the pressure correction is introduced automatically so that the corrected cosmic-ray intensity is eventually recorded.

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ACCESSION NR: AT3012816

Both the pressure transducer and the recording circuit are described. "In conclusion we consider it our duty to thank docent L. V. Kozak for valuable advice." Orig. art. has: 3 figures.

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 22Oct63

ENCL: 02

SUB CODE: PH, SD

NO REF SOV: 001

OTHER: 001

Cerd 2/42

PRILEZHAYEVA, B.N.; FEDOROVSKAYA, N.P.; MIYESSEROVA, L.V.;
DOMANINA, O.N.; KHASKINA, I.M.

Methods of determining varieties of organic sulfur in solid
fuels. Trudy IGI 21:159-168 '63.

Determining sulfur ether in solid fuel by the methyl iodide
method. 202-210 (MIRA 16:11)

Prilezhayeva, N.A

PHASE I BOOK EXPLOITATION

SOV/6181

Ural'skoye soveshchaniye po spektroskopii. 3d, Sverdlovsk, 1960. Materialy (Materials of the Third Ural Conference on Spectroscopy) Sverdlovsk, Metallurgizdat, 1962. 197 p. Errata slip inserted. 3000 copies printed.

Sponsoring Agencies: Institut fiziki metallov Akademii nauk SSSR. Komissiya po spektroskopii; and Ural'skiy dom tekhniki VSNTO.

Eds. (Title page): G. P. Skornyakov, A. B. Shayevich, and S. G. Bogomolov; Ed.: Gennadiy Pavlovich Skornyakov; Ed. of Publishing House: M. L. Kryzhova; Tech. Ed.: N. T. Mal'kova.

PURPOSE: The book, a collection of articles, is intended for staff members of spectral analysis laboratories in industry and scientific research organizations, as well as for students of related disciplines and for technologists utilizing analytical results.

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Materials of the Third Ural Conference (Cont.)

SOV/6181

COVERAGE: The collection presents theoretical and practical problems of the application of atomic and molecular spectral analysis in controlling the chemical composition of various materials in ferrous and nonferrous metallurgy, geology, chemical industry, and medicine. The authors express their thanks to G. V. Chentsova for help in preparing the materials for the press. References follow the individual articles.

TABLE OF CONTENTS:

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PART I

Sherstkov, Yu. A., and L. F. Maksimovskiy. Investigation of the dependence of the total intensity of spectral lines on the concentration of elements in an arc-discharge plasma 4

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Materials of the Third Ural Conference (Cont.)	SOV/6181
Preobrazhenskiy, N. G. New version of the reabsorption method for measuring absolute atom concentrations in plasma	8
Prilezhayeva, N. A. Some excitation features of gas mixtures in low-pressure discharges	12
Shtutman, M. N., V. P. Avdeyenko, V. M. Shul'man, and T. A. Yeremeyeva. Investigation of pulse-discharge features	15
Zykova, N. M., and G. Ye. Zolotukhin. Effect of the kind of substance and arc current on the size of cathode and anode spots	20
Zolotukhin, G. Ye., N. M. Zykova, and T. A. Kravchenko. Temperature measurement in the "white spot" region of metallic electrodes in the current of an ac arc	23

Card 3/453

BOGAYEVSKIY, A.P.; KARASEVA, A.F.; PRIKLONSKAYA, N.V.

State of the industry of industrial rubber goods five years after
the May Plenum of the Central Committee of the CPSU held in 1958.
Kauch. i rez. 22 no.5:1-6 My '63. (MIRA 16:7)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.
(Rubber industry)

SHORSKOV, MIRA Klementovitch; RYKALIN, N.N., red.;
FRIMANENSKIY, A.A., red.

[Metallography of welded steel and titanium alloys]
Metallovedenie svarki stali i splavov titana. Moskva,
Nauka, 1965. 335 p. (MIRA 18:8)

1. Chlen-korrespondent AN SSSR (for Rykalin).

PRIKLONSKAYA, Natal'ya Vladimirovna; SKACHKOV, Aleksey Sergeyevich;
KUPERMAN, F.Ye., red.; ZAZUL'SKAYA, V.F., tekhn. red.;
PANTELEYEVA, L.A., tekhn. red.

[Rapid methods of rubber compounding] Skorostnye metody
prigotovleniia rezinovykh smesei. Moskva, Goskhimizdat,
1963. 419 p. (MIRA 16:11)
(Rubber machinery)

PRIKLONSKAYA, N.V.

Powerful extruding machines mounted below mixers. Kauch.1 rez. 19
no.6:10-19 Je '60. (MIRA 13:6)

1. Rezinoproyekt.
(Rubber, Machinery)

PRIKLONSKAYA, N. V., Cand Tech Sci -- (diss) "High-speed
mixing of rubber as a factor ^{in the} intensification of the pro-
duction process." Mos, 1957. 13 pp (Min of Higher Educa-
tion USSR, Mos Inst of Fine Chem Engineering im M. V. Lomono-
sov), 110 copies (KL, 52957, 108)

- 68 -

L 23533-66 EWP(j)/EWT(m) IJP(c) RM

ACC NR: AP6007854

(A)

SOURCE CODE: UR/0138/66/000/002/0006/0009

AUTHOR: Friklovskaia, N. V.; Arkina, S. N.

ORG: Scientific Research Institute for the Rubber Industry (Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti)

TITLE: Preparations of mixtures using siloxane rubbers

SOURCE: Kauchuk i rezina, no. 2, 1966, 6-9

TOPIC TAGS: material mixing, rubber, titanium oxide

ABSTRACT: The preparation of mixtures in conventional mixing-sheeting rollers using siloxane rubbers takes 25-40 minutes. A closed rubber mixer RS-45 increased production efficiency approximately four times and allowed hermetic sealing. This suppressed dust formation which in the case of aerosil (SiO₂ produced from the gas phase) resulted in a dust concentration in the plant air in amounts higher than sanitarly permissible. The coefficient of utilization of the mixing chamber should be 0.74 (volume of charge 52 liters) for normal mixing and producing a homogeneous monolithic mass. At a charge volume of 45 liters the mixing of rubber with filler either did not occur (mixture was in the form of crumbs) or occurred only if charged in five or more stages. The temperature developing during the mixing of rubber with titanium white and soot U-333 was small (40-55C) and permitted an addition of vulcanizer

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UDC: 678.84:678.023.334

L 23533-66

ACC NR: AF6007854

(benzoyl peroxide) into the chamber. During preparation of the mixture with aerosil, the temperature at discharge reached 70C and vulcanizer therefore had to be added on rollers. The mixtures from siloxane rubbers responded excellently to extrusion without an increase in temperature. This permitted substituting sheeting rollers with a strainer-slabber. Orig. art. has: 4 tables.

SUB CODE: 11,13/ SUBM DATE: 16Jan65/ ORIG REF: 001/ OTH REF: 004

Card

2/2

SOV/112-59-5-8890

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 5, p 67 (USSR)

AUTHOR: ~~Priklonskaya, N. V.~~

TITLE: Consumed Power and Electric-Energy Consumption in High-Speed Mixing of Rubbers

PERIODICAL: Kauchuk i rezina, 1958, Nr 4, pp 11-14

ABSTRACT: Results of experimental investigations of the required power and energy consumption for mixing standard tread rubber are presented. Curves of power as a function of rotor rpm and mixer temperature, and also as a function of material-charging conditions and mixing duration are presented. With higher speeds, the power requirement increases by 160-300%; the specific energy consumption does not change. If the mixer temperature is raised to 110°C and the final mix temperature to 160-170°C, the specific energy consumption decreases in this case by 30%. Energy consumption decreases also if the ingredients are charged simultaneously or if the mixing cycle time is shortened.

V. V. M.

Card 1/1

VORONTSOV, Danil Semenovich; NIKITIN, Vladimir Nikolayevich [Nikitin, V.M.];
SERKOV, Filipp Nikolayevich [Serkov, P.M.]; PRIKHOD'KOVA, Ye.K.
[Prykhod'kova, Ye.K.], otv.red.; BRAGINSKIY, L.P. [Brahins'kyi, L.P.].
red.izd-va; YEFIMOVA, M.I. [IEfimova, M.I.], tekhn.red.

[An outline of the history of physiology in the Ukraine] Narysy z
istorii fiziologii na Ukraini. Kyiv, Vyd-vo Akad.nauk URSR, 1959.
253 p. (MIRA 13:?)

1. Chlen-korrespondent AN USSR (for Prikhod'kova).
(Ukraine--Physiology)

PRIKLONSKAYA, N.V.

New high-pressure high-speed mixers. Kauch. 1 rez. 18 no.2:
24-30 F '59. (MIRA 12:4)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy re-
zinovoy promyshlennosti.
(Rubber machinery)

AUTHOR: Priklyonskaya, N. V.

SOV/133-59-2-3/24

TITLE: New High-Speed, High-Pressure Mixers (Novyye skorostnyye smesiteli vysokogo davleniya)

PERIODICAL: Kauchuk i rezina, 1959, Nr 2, pp 24-30 (USSR)

ABSTRACT: A Banbury Nr 11 standard type mixer, illustrated in Fig 1, is described. The mixer is fed through a feed hopper, in which there is a pneumatic cylinder with a piston of 200 mm diameter. The piston rod is connected to a shutting device for the hopper and the time of opening or closing the device is about 10-15 sec. The air pressure in the cylinder is 3.5 to 4 atm and the pressure on the mix is 0.5 to 0.7 kg/cm². The material is mixed by two rotors revolving in opposite directions at 16.8 and 19.5 r.p.m. and driven by a 250 h.p. electric motor. The mixing time for 1 charge is about 3 to 15 mins. It is claimed that the mixing time can be reduced to 1.5 to 3.5 mins per charge by increasing the rotor speeds to 30-40 r.p.m. or even to 60 r.p.m., and the specific pressure on the mix to 4 or 5 kg/cm² by improving the pressure tightness of the

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New High-Speed, High-Pressure Mixers

SOV/138-59-2-8/24

mixer body, by using more wear resistant material to line the mixer chamber and rotors, by improving the cooling and by increasing the power of the drive. Such a modified mixer is shown in Fig 2. The piston operating the shutting device has been increased to 400-500 mm diameter, thus causing a rise of the specific pressure on the mix to 3.5-5 kg/cm² and reducing the time for the opening or closing of the shutting device to 6 secs. The cast steel rotors and steel mixing chamber are lined with Stellite 2 to 4 mm thick, with a Brinell hardness of 500 to 550 kg/mm². The rotors are carried in spherical roller bearings with circulating oil lubrication (Fig 3). An improved mechanical face seal is illustrated in Fig 4, it is self-tightened by the pressure of the mix, and the mix in the seal cavity is kept in a soft condition by lubrication provided by special oil pumps. The high-speed mixer has increased cooling involving 50 m³/hour of water of 8-12°C and at 3-4 kg/cm² pressure. The mixer chamber is finned to improve convection cooling. Fundamental changes are made in the drive layout depicted in Fig 8. The "block-reducing" gear (Fig 6) contains the

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step-down drive and the pinions linking the two rotors in

New High-Speed, High-Pressure Mixers

NOV/138-59-1-8/

the same gear casing. The reducer output shafts are coupled to the rotors through universal spherical couplings shown in Fig 7. To save space, NIIKhimmasn and the "Bol'shevik" factory at Kiyev designed a drive layout, where the twin-drive motors as well as the mixers are mounted on the same side of the reducer. As a result the whole length of the layout is reduced approximately by 4 m. Electric motors with air and water cooling are usually employed, involving an average consumption of 24.6 m³/hour of water. Two-speed mixers are usually employed with speed ranges of 30/26.5 and 40/35.5 r.p.m. or 20/17 and 40/35.5 r.p.m. Speed change may be obtained by commutation of the poles of the stator windings, of the two-speed asynchronous motors or by mounting two synchronous motors on the same shaft and using one or other motor. By using improved speed mixers with a mixing time of 1.5 to 3.5 mins, a production increase can be obtained of more than three times or an output of 2.5 to 6.6 metric

Card 3/4 tons of mix per hour.

New High-Speed, High-Pressure Mixers

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There are 8 figures and 8 references, 4 of which are Soviet and 4 English.

ASSOCIATION: Gosudarstvennyy institut po proyektirovaniyu
predpriyatiy rezinovoy promyshlennosti
(National Institute for Planning Works in the Rubber
Industry)

Card 4/4

AUTHOR: Priklonskaya, M. V. 307/138-1-1-1/13

TITLE: Required Power and Consumption of Electric Energy During High Speed Mixing of Rubbers. (Potreblayemaya moshchnost' i raskhod elektricnergii pri skorostnoi smeshenii rezin).

PERIODICAL: Kauchuk i Rezina, 1958, Nr.4. pp. 11 - 14. (USSR).

ABSTRACT: The NIIkhimmash constructed a two-speed mixer in which the number of revolutions of the rotors is increased by 100%. The number of revolutions of the front rotor = 40.5 revolutions/minute and 20 revolutions/minute, as compared to the previous 19.5 revolutions/minute. The power of the feed hopper of the mixer and of the pressure over the mixture are also increased. In this way, it is possible to shorten the time of mixing of the rubber by 100%; thus, the energy requirement of the electric motor is altered. Conditions of work of the electric motor during agitation and mixing were investigated. The work was carried out in the laboratories of the NIIShP during 1954 - 1955 in collaboration with the technician Safrinov. A laboratory mixer was used for the experiment; capacity of the mixing chamber = 2 litres; number of revolutions of rotors: 27/32, 35/40, 42/50, 53/63, and 64/100 revolutions/minute.

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NOV/138-5000-4/31

Required Power and Consumption of Electric Energy During High Speed Mixing of Rubbers.

The volume of the mixture = 1.5 kg; power of the electric motor = 40 kw, and the power requirement for the blank run = 1.8 kw. The mixture was based on SKS-30A. Investigations showed that the maximum required power during mixing depends on the condition of mixing (the number of revolutions of the rotors, the period of mixing, and the order of feeding the ingredients into the mixer) (Fig. 1 and Table 1). A two-fold increase in the rate of revolutions of the rotors during successive feeding of the ingredients and proportionate shortening of the period of mixing requires 160% - 300% more power. The electric energy consumption remains constant. The influence of the temperature of the mixing chamber and the mixture, of the conditions of feeding the materials into the mixer, and the time of mixing on the losses of electric energy were also investigated. The experiments were carried out when (1) number of revolutions of the rotors = 42/50 revolutions/minute, (2) 84/100 revolutions/minute, and the time of mixing = 4.5 minutes; initial temperature of the mixing chamber = 70°C, (3) and the number of revolutions = 84/100 revolutions/minute, and time of

Card 2/4

00V/138 -58-A-A/13

Required Power and Consumption of Electric Energy during High Speed Mixing of Rubbers

mixing 4.5 minutes and the initial temperature of the mixing chamber = 110°C (Fig.2 and Table 2). The conditions of mixing (at a starting temperature of mixing chamber of 110°C) were investigated at 3.5 minutes, 3 minutes and 2 minutes of mixing (Fig.3). The number of revolutions of the rotors = 84/100 revolutions per minute. The required power reached a maximum value at simultaneous feeding of the materials. Table 3 gives data on all investigated conditions of mixing at varying periods of mixing. The consumption of electric energy was lowered when the time of mixing was shortened, but it is pointed out that this decreased consumption would not be noticeable under industrial conditions. These experimental data confirm that it is advantageous to increase the number of revolutions of the rotors of a mixer when preparing rubber mixtures, and that it is especially effective during conditions of simultaneous feeding of the ingredients and mixing at increased temperatures.

Card 3/4

SOV/138 -58-4-4/13
Required Power and Consumption of Electric Energy During High
Speed Mixing of Rubbers

There are 3 figures, 3 tables and 5 references, 2 of which
are Soviet, 3 English.

ASSOCIATION: Rezinoprojekt, Moscow

Card 4/4 1. Rubber--Production 2. Industrial equipment--Power
3. Electricity--Consumption

FRIK lonskaya, A. B.

Distr: (E2c(j)

✓ 1418. Tyre retreading - a source of economy in rubber and textile. N. V. PUTSOVSKAYA. *Rauch. i Rezina*, 1957, 10, No. 8, 21-3. The Gosizd. Inst. po Proekt. Predpriyatii Rezina. Prma. (State Planning Institute for Rubber Industry Under-takings) has made a study of the desirability of encouraging the retreading industry in the USSR. and appropriate recommendations are made.

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9 May

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PRIKLONSKAYA, N. V.

15

5718. Rapid mixing of rubber as a factor in the intensification of production. N. V. PRIKLONSKAYA. Kauch. i Rezina. 1957, 18, No. 4, 9-10. The work carried out confirms the desirability of using rapid mixing cycles for mixes based on Soviet synthetic rubbers, SKS and SKB. It is shown that further intensification is achieved by simultaneous charging of all the ingredients into the mixer in conjunction with increasing pressure and the rotor speed. The authors recommend the large-scale introduction of the two-stage process of mixing with increased rotor speed in the first stage. In a factory producing 2 million tyres a year this reduces the capital investment to 7.5 million roubles and reduces working costs to 2 million roubles per annum.

There are 2 references.

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2 May

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PRIKLONSKIY, A.

30-8-23/37

AUTHOR: Priklonskiy, A., Doctor of Geological and Mineralogical Sciences

TITLE: The Engineer-Geological Investigation of Various Types of Rock
(Inzhenerno-geologicheskoye izucheniye gornyykh porod)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1957, Vol. 27, Nr 8, pp. 96-99 (USSR)

ABSTRACT: The above mentioned research work is one of the most important in geology; it attained eminent importance in recent times. Today this kind of research work is taught and carried out by various academic- and other institutions. On April 15/20 a conference was held at Moscow which dealt with problems of theory and practice of the aforementioned field of research. At the full sessions of this conference various reports were discussed which dealt with the petrogenesis and with the further development of various types of rock. Work in the different sections was mainly devoted to special types of rock. Much importance was attached also to problems concerning the classification of rock types. After the assembly had approved of the initiative of the hydrogeological laboratory, better coordination of work in the field of writing monographies (on regional genetic types of rock) was demanded. It was decided that conditions in the Far East should be dealt with next.

Card 1/2

The Engineer-Geological Investigation of Various Types of Rock

30-8-23/37

AVAILABLE: Library of Congress

Card 2/2

ROZENTRETER, Boris Aleksandrovich; MEL'NIKOV, N.V., akademik,
otv. red.; PRIKLONSKIY, A.A., red.

[Aleksandr Mitrofanovich Terpigorev, 1873-1959; essay
on his life and work] Aleksandr Mitrofanovich Terpigorev,
1873-1959; ocherk zhizni i deiatel'nosti. Moskva, Nauka,
1965. 182 p. (MIRA 18:6)

SAMARIN, A.M., otv. red.; PRIKLONSKIY, A.A., red.

[Problems of major metallurgical processes and the physical chemistry of new alloys; on the 100th anniversary of Academician M.A.Pavlov's birth] Problemy bol'shoi metallurgii i fizicheskoi khimii novykh splavov; k 100-letiiu so dnia rozhdeniia akad. M.A.Pavlova. Moskva, Nauka, 1965. 326 p. (MIRA 18:7)

1. Akademiya nauk SSSR. Institut metallurgii. 2. Chlen-korrespondent AN SSSR (for Samarin).

KORNILOV, Ivan Ivanovich; AGEYEV, N.V., otv. red.; PRIKLONSKIY, A.A.,
red.

[Metallides and their interaction] Metallidy i vzaimo-
deistvie mezhdru nimi. Moskva, Nauka, 1964. 179 p.
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USPENSKIY, S.M.; BEME, R.L.; PRIKLONSKIY, S.G.; VEKHOV, V.N.

Birds of northeastern Yakutia. Ornitologia no.5:49-67 '62.
(MIRA 16:2)

(Yakutia--Birds)

ERIKLONSKIY, S.G.; BEME, R.L.; USPENSKIY, S.M.

Materials on bird flights in the Indigirka Delta. Migr. zhiv.
no.3:145-159 '62. (MIRA 16:2)

1. Okskiy gosudarstvennyy zapovednik, Zoologicheskiy muzey
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universiteta.

(Indigirka Delta--Birds--Migration)