"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

ACC NR: AP6029020

SOURCE CODE: UR/0413/66/000/014/0023/0023

INVENTOR: Bliznyuk, N. K.; Kolomiyets, A. F.; Strel'tsov, R. V.; Kvasha, Z. N.; Varshavskiy, S. L.; Libman, B. Ya.

ORG: none

TITLE: Preparation of O-alkyl-S(β-acyloxy)ethyl thiophosphinates. Class 12, No. 183745. [announced by All-Union Scientific Research Institute of Phytopathology (Vsesoyuznyy nauchno-issledovatel'skiy institut fitopatologii)

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 23

TOPIC TAGS: ~~alkylacyloxyethyl thiophosphinate synthesis,~~ mercaptoethyl ester, carboxylic acid, phosphinic acid dichloride, ORGANIC PHOSPHORUS COMPOUND, PHOSPHONIC ACID, ESTER

ABSTRACT: In the proposed method, O-alkyl S(β-acyloxy)ethyl thiophosphonates of the general formula:
(where R and R' are alkyl, substituted alkyl, substituted aryl, or aryl; R" is lower alkyl) are obtained by the reaction of β-mercaptoethyl carboxylates with a phosphonic ester chloride or with a mixture of phosphonic acid dichloride and an alcohol in organic solvents in the presence of HCl acceptors, e.g., tertiary amines. Orig. art. has: 1 formula. [WA-50; CBE No. 11]

SUB CODE: 07/ SUBM DATE: 28Jul65/

Card 1/1

UDC: 547.26'118.07

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

ACC NR: AP6029024

SOURCE CODE: UR/0413/66/000/014/0024/0024

INVENTOR: Bliznyuk, N. K.; Kvasha, Z. N.; Khokhlov, P. S.; Libman, B. Ya.; Beym, A. I.; Vershinin, P. V.

ORG: none

TITLE: Preparation of S,S-dialkyl dithiochlorophosphates. Class 12, No. 183752

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 24

TOPIC TAGS: insecticide preparation, dibutyl dithiochlorophosphate, butyl mercaptan, mercaptan, chlorinated organic compound, phosphate, pyridine

ABSTRACT:

To increase the yield in the preparation of S,S-dialkyl dithiochlorophosphates, e.g., S,S-dibutyl dithiochlorophosphate, by the treatment of alkyl mercaptans (e.g., butyl mercaptan) and pyridine with phosphoryl chloride, the reaction is conducted in the presence of ammonium salts of substituted polythiophosphonic acids, e.g., ammonium phenyl dithiophosphonate.

SUB CODE: 07/ SUBM DATE: 24May65

[WA-50; CBE No. 11]

Card 1/1

UDC: 547.419.1.07

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

ACC NR: AP6030567

SOURCE CODE: UR/0413/66/000/016/0035/0035

INVENTOR: Bliznyuk, N. K.; Kvasha, Z. N.; Khokhlov, P. S.; Libman, B. Ya.; Vershinin, P. V.; Beym, A. I.; Mil'gotin, I. M.

ORG: none

TITLE: Preparation of S,S,S-trialkyl trithiophosphates. Class 12, No. 184864

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 35

TOPIC TAGS: ~~trialkyl trithiophosphate preparation~~, mercaptan, phosphoryl chloride, phosphate, chemical reaction, phosphorus chloride

ABSTRACT:

To simplify the technological preparation of S,S,S-trialkyl trithiophosphates by the reaction of mercaptans with phosphoryl chloride, the reaction is conducted in the presence of an ammonium salt of substituted polythiophosphoric or polythiophosphonic acids as catalysts.

SUB CODE: 07/ SUBM DATE: 24May65

[WA-50; CBE No. 11]

Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

ACC NR: AP6033455 SOURCE CODE: UR/0413/66/000/018/0039/0039

INVENTOR: Bliznyuk, N. K.; Kvasha, Z. N.; Nifant'yev, E. Ye.; Varshavskiy, S. L.

ORG: none

TITLE: Preparation of O-alkyl esters of dialkylphosphinic acids. Class 12, No. 185905 [announced by All-Union Scientific Research Institute of Phytopathology (Vsesoyuznyy nauchno-issledovatel'skiy institut fitopatologii)]

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 39

TOPIC TAGS: alkyl dialkylphosphinate, phenylarsenic acid, phosphinic acid, ester

ABSTRACT: To obtain biologically active compounds, dialkylphosphinic acids are treated with alcohols in the presence of phenylarsenic acid as catalyst. The reaction is carried out with excess alcohol and azeotropic removal of water at 180—220°C. [W.A. 50]

SUB CODE: 07/ SUBM DATE: 15Nov65

Card 1/1 UDC: 547.26'118.07

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 31810-66 EWT(1)/EWT(m)/EWP(j) RO/RM

ACC NR: AP6021678 SOURCE CODE: UR/0079/66/036/003/0475/0480

AUTHOR: Bliznyuk, N. K.; Kolomiyets, A. F.; Kvasha, Z. N.; Levskaya, G. S.; Antipina, V. V.

ORG: All-Union Scientific Research Institute of Phytopathology (Vsesoyuznyy nauchno-issledovatel'skiy institut fitopatologii)

47
B

TITLE: Dialkyl phosphites and monoalkylphosphinites

SOURCE: Zhurnal obshchey khimii, v. 36, no. 3, 1966, 475-480

TOPIC TAGS: organic phosphorus compound, chemical reaction kinetics, toxicity, plant injury, chemical synthesis, ester, azeotropic mixture

ABSTRACT: It was found that dialkyl phosphites and monoalkylphosphinites are produced in high yields (almost quantitative) independent of the temperature at which the reagents are mixed, and degree of removal of hydrogen chloride from the reaction zone, by boiling the reaction mass, containing the reaction products of alcohols with phosphorus trichloride or dichlorophosphines, an esterification catalyst (such as sulfuric acid or p-toluenesulfonic acid), and a solvent, with azeotropic distillation of water. A preliminary estimate was made of the herbicidal activity of some of the ten compounds synthesized. In the tests the aboveground portion of the plants (the kidney bean as a typical dicot and the oat as a typical monocot) was sprayed with emulsions of

Card 1/2

UDC: 546.183:542.951.3

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 31811-66 EWT(m)/EWP(j) RM

ACC NR: AP6021679

SOURCE CODE: UR/0079/66/036/003/0480/0483

AUTHOR: Bliznyuk, N. K.; Kolomiyets, A. F.; Kvasha, Z. N.; Lovskaya, G. S.; Zhemchuzhin, S. G.

ORG: All-Union Scientific Research Institute of Phytopathology (Vsesoyuznyy nauchno-issledovatel'skiy institut fitopatologii)

45
B

TITLE: Reaction of phenolates with ethylene chlorohydrin and dialkylchloro phosphates in aqueous solutions

SOURCE: Zhurnal obshchey khimii, v. 36, no. 3, 1966, 480-483

TOPIC TAGS: phenol, chlorohydrin, phosphate, aqueous solution, chemical synthesis, reaction rate, chemical kinetics

ABSTRACT: The synthesis of aryloxyethanols and dialkylaryl phosphates by the reaction of phenols with ethylene chlorohydrin and dialkylchlorophosphates, respectively, in the presence of aqueous alkalies was studied. A change in the order of mixing of the reagents was found to substantially increase the yields of the products. This was achieved by simultaneous synchronous addition of the alkyl (or acyl) halide and solution of alkali to the phenol at a temperature sufficient for a relatively rapid reaction. The rate of addition of the reagents in each concrete case was regulated so that the reacting substances would not accumulate in the reaction mixture during the

Card 1/2

UDC: 547.562:542.951.3/4:546.185

Card 2/2 LS

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 1358-66 EPF(c)/EWT(m)/EWP(j) RM

ACCESSION NR: AP5024364 UR/0286/65/000/015/0032/0032
661.718.1:547.26'118

20
B

AUTHOR: Bliznyuk, N. K.; Kvasha, Z. N.; Kolomiyets, A. F. 44,55 44,55 44,55 44,55

TITLE: A method for producing esters of alkyl(aryl)phosphonous acids. Class 12, No. 173235

15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 32

TOPIC TAGS: organic phosphorus compound, hydrogen chloride, esterification, organic oxide, alkylphosphine

ABSTRACT: This Author's Certificate introduces a method for producing esters of alkyl(aryl)phosphonous acids by interacting alkyl(aryl)dichlorophosphines with alcohols in the presence of a hydrogen chloride acceptor. The method is simplified by using α-oxides of olefins as the hydrogen chloride acceptor, e. g. ethylene or propylene oxide.

ASSOCIATION: none

SUBMITTED: 10May63 ENCL: 00 SUB CODE: OC, GC

NO REF SOV: 000 OTHER: 000

Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 4960-66 EWT(m)/EPF(c)/EWP(j)/EWP(t)/EWP(b) IJP(c) JD/RM

ACC NR: AP5025677 SOURCE CODE: UR/0286/65/000/018/0025/0025

AUTHORS: Blizuyuk, N. K.; Kvasha, Z. N.; Solntseva, L. M.; Libman, B. Ya.; Beym, A. I.; Sevitov, I. B.

ORG: none

TITLE: A method for obtaining dialkylphosphites. Class 12, No. 174624 [announced by Organization of the State Committee for Chemical Industry at Gosplan SSSR (Organizatsiya gosudarstvennogo komiteta po khimicheskoy promyshlennosti pri gosplane SSSR)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 25

TOPIC TAGS: phosphorus compound, alcohol, dialkylphosphite

ABSTRACT: This Author Certificate presents a method for obtaining dialkylphosphites by reacting phosphorus trichloride with alcohols or alcoholic solution, with subsequent drying of products by a current of dry air. To increase the yield of final product and to simplify the process, trialkylphosphites are added to the reaction mixture in quantities equivalent to the overall content of acidic products.

SUB CODE: OC/ SUBM DATE: 17Oct64

UDC: 547.419.1.07

Card 1/1 Md 0901 1570

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

USSR/Farm Animals - Large Horned Cattle. 0-2

Abs Jour : Ref Zhur- Biol., No 18, 1958, 83375

Author : Gugushvili, K.F., Matskepladze, I.B., Kvashali, F.D.

Inst : Georgian Scientific Research Institute of Animal Husbandry and Veterinary Medicine.

Title : Effects of Stall-Camp Keeping upon Prevention of Barreness in Cows.

Orig Pub : B. nauchno-tekhn. inform. Gruz. n.-i. in-ta zhivotnovodstva i vet., 1957, No 2, 10-12.

Abstract : The fact is pointed out that stall-camp keeping promotes reduction in the number of cows which become impregnated after a comparatively long time following their calving (these cows arrived and were impregnated 90-120 days after calving). The percentage was reduced from 51-66 percent in 1952 to 15 percent in 1955. Incidences of the placenta

Card 1/2

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

USSR/Farm Animals - Large Horned Cattle. 0-2

Abs Jour : Ref Zhur - Biol., No 18, 1958, 83375

being retained was reduced by 6-2.5 times, and cases of uterus inflammation decreased by 1.5 times as compared to 1953-1954.

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

USSR / Farm Animals. Swine

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 64496

Author : Kvashali, F. D.; Tsinadze, K. N.; Makhatadze, D. N.

Inst : Scientific Research Institute of Animal Husbandry, Georgian SSR

Title : Materials for the Study of the Fattening Capacity of the Crosses of the Mangalitsa Breed of the Abkhasian Hybrids, Slaughter Products and Their Qualitative Indexes.

Orig Pub : Sb. tr. N.-i. in-t zhivotnovodstva GruzSSR, 1957, 2, 179-192

Abstract : Two groups of hybrid pigs (Local X Mangalitsa) of 10 heads each were taken for fattening. The basic concentrates were barley grits (1st group) and corn grits (2nd group). The animals of the first group, at the age of 4-6 months, were fed 121 g. of digestible protein per one feed unit; from 6 to 8 months, 110 g.; and from 8 to 10 months, 99 g. The animals of the second group were fed 111, 108, and 98 g.,

Card 1/2

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

Country : USSR
Category : Farm Animals. Q-3
Swine.
Abs. Jour : Ref Zhur-Biol., No 16, 1958, 74094

Author : Kvashali, F.D.; Makhatadze, D.
Institut. : Scientific Research Institute of Animal*
Title : Experiment in Using Fodder Yeasts in the Rations of Immature Sows.

Orig Pub. : Sb. tr. N.-i. in-t zhivotnovodstva GruzSSR, 1957, 2, 193-204

Abstract : In piglets that received 10 percent (according to nutritive value) of dried fodder yeasts, average daily weight gains were smaller by 10 percent, and the expenditure of fodder per 1 kg of weight gain greater by 11.7 percent as compared to piglets that received the same amount of pupae of the mulberry silk worm.

Card: 1/1

*Husbandry Georgian SSR.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

SKHIRTLEDZE, S.N.; KVASHALI, G.F.

Work of grading machines under conditions of the complex micro-relief of the Georgian S.S.R. Trudy GruzNIIGiM no.20:357-367 '58. (MIRA 15:5)

(Graders (Earthmoving machinery))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

3(5), 30(1) SOV/99-59-10-3/11

AUTHOR: Skhirtladze, S.N., Candidate of Engineering Sciences and Kvashali, G.F., Engineer

TITLE: Experience From Using the PT-4A Long-framed Leveler Under Conditions of Complex Microrelief

PERIODICAL: Gidrotekhnika i melioratsiya, 1959, Nr 10, pp 28-32 (USSR)

ABSTRACT: In 1958 the GruzNIIGiM carried out trials with the PT-4A long-framed leveler on the "Krtsanisi" sovkhoz in the Gareubanskiy rayon and in the village of Zegduleti in the Goriyskiy rayon. The soil in both these places was heavy loam. Before leveling, the sections were ploughed to a depth of 30 cm and then harrowed. The effect of leveling was checked by surveying before and after each pass with the PT-4A. The effect of leveling can be seen by comparing the charts in Fig 3 and 4. It was found that the PT-4A can remove bumps and depressions up to a length of 30 cm with a depth of cut of 5-8 cm. Where the unevennesses in the terrain are

Card 1/3

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

SOV/99-59-10-3/11

Experience From Using the PT-4A Long-framed Leveler Under Conditions of Complex Microrelief

of considerable size, preliminary treatment with a scraper is necessary. The leveler should be used when the soil moisture is between 5 and 25%. Above 25% the soil sticks to the bottom of the scoop and spoils the leveling action; below 5% considerable pulverization takes place. In moist crumbly soils the wheels of the leveler sink into the ground and the scoop must be raised accordingly, otherwise too great a cut is taken. In the trials it was found that about 30% of the working time is spent on turn-rounds at the end of each pass. Thus, the leveling runs should be kept as long as possible (not less than 200 m). The trials showed that the PT-4A could level 6 hectares a shift (10 hrs) with one pass and 3 hectares with a double pass. Fuel consumption was 21 kg/hectare per pass. The following defects in the design were shown up. The scoop is hard to raise or lower when loaded. To empty

Card 2/3

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

SOV/99-59-10-3/11

Experience From Using the PT-4A Long-Framed Leveler Under Conditions of Complex Microrelief

the scoop at the end of each turn it was necessary to reverse the machine and drive round the earth tips. The capacity of the scoop was too small and earth often spilled over the top. Thus, the PT-4A is useful for light leveling where the unevennesses in the terrain are up to 30 m long and 30 cm in height. For dealing with larger unevennesses, however, a better leveler is needed. There are 4 charts, 1 photograph and 1 schematic diagram.

ASSOCIATION: GruzNIIGiM

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

SKHIRTLADZE, S.M.; KVASHALI, G.F.

Grading the complicated microrelief of Georgia. Trudy Gruz NIIGiM no.21:121-132 '60. (MIRA 16:1)
(Georgia--Grading (Earthwork))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHALI, N.F., aspirant

Use of different vitamin D sources in feeding caged layers.
Ptitsevodstvo 9 no.4:37-39 Ap '59. (MIRA 12:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsevodstva.
(Poultry--Feeding and feeding stuffs)
(Vitamins--D)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHALI, N. F., CAND AGRI SCI, "BIOLOGICAL AND ECONOMIC EVALUATION OF VARIOUS SOURCES OF VITAMIN "D" FOR CELLULAR LAYING HENS." MOSCOW, 1960. (MOSCOW ORDER OF LENIN AGR ACAD IM K. A. TIMIRYAZEV). (KL, 2-61, 215).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHALI, N.F.

Effectiveness of the use of various vitamin D preparations in feeds for layers. Vit. res. i ikh isp. no.6:220-229 '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsevodstva.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 35524-65 EWT(m)/EPF(c)/EPR/EWP(j)/EWP(t)/EWP(b)/EWA(c) Pc-4/Pr-4/Ps-4 IJP(c)/
RPL JD/WW/RM S/0286/65/000/005/0071/0071
ACCESSION NR: AP5008203

AUTHORS: Fokin, A. V.; Skladnev, A. A.; Kvashan, Z. N.; Studnev, Yu. N.

TITLE: A method for producing sulfur-bearing polyfluororganic compounds. Class 39, No. 168882

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 5, 1965, 71

TOPIC TAGS: sulfur, fluorine, organic derivative, olefin

ABSTRACT: This Author Certificate presents a method for obtaining sulfur-bearing polyfluororganic compounds. To expand the raw-material base, fluorolefin is made to react with hydrogen sulfide in the presence of an alkaline or peroxide catalyst.

ASSOCIATION: none

SUBMITTED: 12Dec61 ENCL: 00 SUB CODE: OC

NO REF SOV: 000 OTHER: 000

Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHCHUK, N., inzhener.

Some structural details of welded hull joints. Mor. flot 16 no.7:27-28 Jl '56. (MLRA 9:11)
(Hulls (Naval architecture))--Welding)(Rivets and riveting)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHENKO, B.K.

Early diagnosis of gastric cancer. Khirurgiia no.4:74-76 Ap '53. (MLRA 6:6)

1. Khirurgicheskoye otdeleniye oblastnogo onkologicheskogo dispansera goroda Rovno. (Stomach--Cancer)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHENKO, B. K.: Cand Master Med Sci (diss) -- "Cancer of the uterus. Based on material from Rovno Oblast". L'vov, 1958. 15 pp (L'vov State Med Inst), 200 copies (KL, No 6, 1959, 144)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHENKO, B.K.

Treating cancer of the uterus. Ped., akush. i gin. 20 no.4:57-61 '58. (MIRA 13:1)

1. Glavnyy akusher-ginekolog Rovenskogo oblastnogo otdela okhrany zdorov'ya.

(UTERUS--CANCER)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHENKO, B.K., kand.med.nauk

Dianosis and treatment of cancer of the uterine body. Ped., akush. i gin. 23 no.4:50-52 '61. (MIRA 17:1)

1. Golovniy akusher-ginekolog Rovens'kogo OZV.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHENKO, B.K., kand.med.nauk

Result of clinical observations on gynecological patients.
Akush.i gin. 37 no.2:97-98 F '61. (MIRA 14:3)

1. Iz Rovenskogo otdela zdravookhraneniya (zav. I.M. Andreyeva) i Rovenskoy oblastnoy bol'nitsy (glavnyy vrach - zasluzhennyy vrach USSR V.M. Vel'skiy).
(GYNECOLOGY)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHENKO, B. K., kand. med. nauk

Formation of an artificial vagina from the sigmoid colon. Akush. i gin. no.4:80-83 '62. (MIRA 15:7)

1. Glavnyy akusher-ginekolog Rovenskoy oblasti.

(VAGINA—SURGERY) (COLON—TRANSPLANTATION)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHENKO, B.K., kand.med.nauk

Curettage of the uterus as a cause of hemorrhages in labor. Ped., akush. i gin. 24 no.1:58-59'62. (MIRA 16:8)

1. Glavnyy akusher-ginekolog Rovenskogo oblastnogo otdela zdravookhraneniya.
(HEMORRHAGE, UTERINE) (CURETTE)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHENKO, B.K., kand.med.nauk

Cancer prevention in a rural location of Rovno Province.
Ped., akush. i gin. 25 no.2:43-44'63. (MIRA 16:9)

1. Golovniy akusher-ginekolog Rovens'kogo oblastnogo viddilu okhroni zdorov'ya.
(ROVNO PROVINCE—CANCER—PREVENTION)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHENKO, Yu.

Need for a generalization of practices. Pozh.delo 6 no.1:6 Ja '60. (MIRA 13:5)

1. Glavnyy inzhener Moskovskogo mekhanicheskogo zavoda, predsedatel' pozharno-tekhnicheskoy komissii.
(Woodworking industries--Fires and fire prevention)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASENKO-NILOV, V.M. (Moskva)

Geometrical relationship between the parts of rotor-type combustion engines. Izv. AN SSSR. Otd. tekh. nauk. Energ. i avtom. no.3:166-178 My-Je '61. (MIRA 14:7)
(Gas and oil engines)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

SUSHIN, Vasiliy Yefimovich; KVASHENKO, Yuriy Kirillovich; DUDIN, Semen Ivanovich; ANDRONOVA, Lyubov' Nikanorovna; PETLAKH, Abram Smerkovich ; GRIGOR'YEV, Vasiliy Nikolayevich; KOLYCHEVA, Nataliya Ivanovna; CHUGREYEVA, V.N., red.;TINDE,N.F.,red.; BATYREVA, G.G., tekhn. red.; VINOGRADOVA, G.A., tekhn. red.

[Manual on auxiliary equipment and supplies for the textile industry]Spravochnik po vspomogatel'nym izdeliam dlia tekstil'noi promyshlennosti. Pod red. V.E.Sushina i N.F.Tinde. Moskva, Rostekhizdat, 1963. 432 p. (MIRA 16:5)
(Textile industry--Equipment and supplies)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHENNIKOV, V.A.

Trowel shovel with stopping edge. Rats. i izobr. predl. v stroi. no.91: 25-26 '54. (MLRA 8:8)

1. TSentral'naya nauchno-issledovatel'skaya laboratoriya po stroitel'stva Ministerstva promyshlennykh tovarov shirokogo potrebleniya SSSR.
(Bricklaying)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHEV, G. S.

"Methods of Determination of the Absolute Intensities of Spectral Lines," Zhur. Eksper. i Teoret. Fiz., 11, No.4, 1941

Physics Inst., Leningrad State U.
State Optical Inst., Leningrad

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHILAVA, V.V.

KVASHILAVA, V.V.

Possibility of using Kentranthus in landscape gardening. Biul. Glav. bot. sada no.29:35-37 '57. (MIRA 11:1)

1. Tbilisskiy botanicheskiy sad AN GruzSSR.
(Georgia—Kentranthus) (Plants, Ornamental)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

MASURKA, Vladimir; NAVRATIL, Pavel; CERNOCH, Zdenek; ERBEN, Josef; KVASNICKA, Jiri

Surgical treatment of renal hypertension. Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no.2:269-275 '65.

1. II. chirurgicka klinika (prednosta: prof. MUDr. J. Prochazka, DrSc.); Urologicka klinika (prednosta: doc. MUDr. J. Svab, CSc.); Radiologicka klinika (prednosta: prof. MUDr. J. Bastecky, DrSc.) a I. interni klinika (prednosta: prof. MUDr. F. Cernik) Lekarske fakulty Karlovy University v Hradci Kralove.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

NOZICKA, Zdenek; KVASNICKA, Jiri

A case of osteomyelofibrosis complicated by thrombophlebitis of the portal vein. Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no.5:629-634 '65

1. Patologicko-anatomicky ustav (prednosta - prof. MUDr. A. Fingerland, DrSc) a I. interni klinika (prednosta - prof. MUDr. F. Cernik) v Hradci Kralove.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 08474-67 EWP(j)/EWT(m) IJP(c) RM/WW

ACC NR: AR6016478 SOURCE CODE: UR/0124/65/000/012/V099/V099 45

AUTHOR: Kvasnikov, Ye. N.; Zverev, A. N.

TITLE: Effect of temperature on the strength and deformation properties of some structural plastics

SOURCE: Ref. zh. Mekhanika, Abs. 12V847

REF SOURCE: Sb. Inzh. konstruktsiy. Dokl. k XXIII Nauchn. konferentsii. Leningr. inzh.-stroit. in-ta. L., 1965, 170-175

TOPIC TAGS: material deformation, fiberglass reinforced plastic, tensile strength, compressive strength, low temperature effect, high temperature effect

ABSTRACT: Three types of structural plastics were tested for uniaxial tension and compression for brief periods at low and high temperatures (-50-+90°C): an anisotropic fiberglass material with an anisotropy of 1:1 and 1:5, fiberglass-reinforced textolite and wood-reinforced laminated plastic. It is shown that there is a nearly linear relationship between strength and temperature in fiberglass-reinforced plastics under tension and compression (with the exception of fiberglass-reinforced textolite). V. Privalko. [Translation of abstract]

SUB CODE: 11

Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 15778-66 EWT(1)/FCC/EWA(h) GW

ACC NR: AP6006666 SOURCE CODE: UR/0203/66/006/001/0126/0128

AUTHOR: Charakhch'yan, A. N.; Kyashnin, A. N.; Charakhch'yan, T. N.

ORG: Institute of Physics im. P. N. Lebedev, AN SSSR (Fizicheskiy institut AN SSSR); Moscow State University, Institute of Nuclear Physics (Moskovskiy gosudarstvennyy universitet, Institut yadernoy fiziki)

34
B

TITLE: Solar cosmic rays on 21 and 26 September 1963

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 1, 1966, 126-128

TOPIC TAGS: cosmic ray, stratosphere, chromospheric flare, interplanetary space, proton spectrum, magnetic heterogeneity, solar plasma, diffusion coefficient

ABSTRACT: On 21 and 26 September 1963, solar cosmic rays were simultaneously recorded at Oleniya in the Murmansk region and at Mirnyy in Antarctica. These rays were recorded in the stratosphere and were generated by a chromospheric flare of class 3+. Records at both stations coincided, confirming the isotropic scattering of solar cosmic rays in interplanetary space. Inclinations of integral proton spectra coincided for both the chromospheric flares of 21 and of 26 September. The exponential index of the integral spectrum was 3.6 for the energy range

Card 1/2 UDC: 523.165

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 15778-66

ACC NR: AP6006666

120—200 Mev. The isotropic motion of cosmic rays in the vicinity of the earth is caused by magnetic heterogeneities formed in interplanetary space by solar plasma with frozen magnetic fields. The density of plasma currents diminishes with the decrease of solar activity, which causes the increase in the diffusion coefficient of cosmic rays. An increase in the diffusion coefficient was found in the years 1961, 1962, and 1963 in comparison with the coefficient in 1960. A table in the original article contains the diffusion coefficient and the number of sunspot groups for 1960, 1961, 1962, and 1963. Orig. art. has: 4 figures and 1 table.

[EG]

SUB CODE: 04/ SUBM DATE: 07Jun65/ ORIG REF: 005/ OTH REF: 003/ ATD PRESS: 4200

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 4492-66 EWT(1)/FCC/EWA(h) GW

ACC NR: AP5024659 SOURCE CODE: UR/0048/65/029/009/1774/1776

AUTHOR: Bazilevskaya, G.A.; Kvashnin, A.N.; Krasotkin, A.F.; Filatov, V.M.; Charakhchyan, A.N.

ORG: Physics Institute im P.N.Lebedev, Academy of Sciences, SSSR (Fizicheskiy institut Akademii nauk SSSR)

TITLE: Radiosonde for measurement of x rays in the stratosphere /Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v 29, no 9, 1965, 1774-1776

TOPIC TAGS: x ray, stratosphere, secondary cosmic ray, radiosonde

ABSTRACT: There are briefly described two radiosondes for measuring x rays in the stratosphere. Both instruments employ NaI:Tl scintillators and vacuum tube electronics and are battery powered with transistor voltage convertors The lighter instrument weighs 2.5 kg and records photons with energies above 30-35 keV. The second instrument weighs 6 kg and its threshold is adjustable from 20 to 360 keV by a system of relays, so that photon energy spectra can be recorded. Schematic diagrams are given for both instruments, but not for their power supplies or for the relay system. Altitude versus counting rate curves recorded over Dolgoprudnyy are presented. Orig. art. has: 4 figures.

SUB CODE: NP,OP,EC/ SUBM DATE: 00/ ORIG REF: 002/ OTH REF: 000

Card 1/1

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHIN, V.I. (Stanislav)

Treating otitis and catarrhs of the upper respiratory tract.
Vrach.delo no.7:729-731 Jl'58 (MIRA 11:9)
(RESPIRATORY ORGANS—DISEASES)
(EARS—DISEASES)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

SOURCE CODE: UR/0271/66/000/004/B043/B043

ACC NR: AR6023355

AUTHOR: Kvashin, Ye. V.

TITLE: A study of the effect of parameters of a trigger circuit with autonomous bias on the form of the transient process and a method for increasing the operating speed of the circuit

SOURCE: Ref. zh. Avtomat telemekh i vychisl tekhn, Abs. 4B338

REF SOURCE: Sb. Vopr. vychisl. matem. i tekhn. Vyp. 6. Tashkent, Nauka, 1965, 86-98

TOPIC TAGS: computer design, computer programming, trigger circuit

TRANSLATION: It is observed that one may use a computer to study mathematical models of electrical circuits, as a result of which one may determine: parameters of the transient process, optimal parameters of the circuit, and ways of improving the initial circuit. This study is rather complicated because of the necessity of deriving equations, choosing a numerical method for their solution, and making up a program. Result are given for the solution of equations of the jump process in the T-2 trigger of the "Ural-I". An integration step of $2 \cdot 10^{-8}$ was chosen and, as a result, one variant of the problem was solved in 3-4 min. It was established by the study that increasing t amplitude of a starting signal above 20-30 v leads to an increase of the characteris. tic delay in the flip-flop circuit and the time required to restore it. The additio

UDC: 681.142.67

Card 1/2

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

80659

S/153/60/003/02/07/034
B011/B003

5.5400

AUTHORS: Khadeyev, V. A., Kvashina, F. F.

TITLE: Direct Ammetric Titration of Zirconium by Means of Complexon III and a Rotating Tantalum Microelectrode

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol. 3, No. 2, pp. 250-257

TEXT: In the article under review the authors intended to develop the above titration method. For this reason they examined the polarographic behavior of the complexon III in the anodic region on a platinum- and on a tantalum electrode. Thus, they proved that complexon is capable of oxidation in acid and neutral solutions, i.e., at a potential which is more negative by some tenths of volts than the potential at which oxygen begins separating. The authors established the possibility and the optimum conditions of the titration of zirconium on the basis of the anodic current of the complexon III. The rotating tantalum electrode was

Card 1/3

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

30659

Direct Ammetric Titration of Zirconium by Means of Complexon III and a Rotating Tantalum Microelectrode

S/153/60/003/02/07/034
B011/B003

used as an indicator electrode. This method enabled the titration of both small and large amounts of zirconium in a medium of sulfuric acid, nitric acid and hydrochloric acid with a high degree of accuracy. Finally, the authors studied the influence of several strange anions and cations on the titration of zirconium. They are as follows: Sulfates of aluminium, zinc, cobalt, manganese, beryllium, titanium, cadmium and hydrazine, nitrates of chromium, thorium, lead, copper (with or without sodium tartrate), mercury (II) (with ot without NaCl); chlorides of nickel, cerium (III), and hydroxyl amine; of uranyl acetate, ammonium vanadate, ammonium molybdate, and sodium tungstate with sodium tartrate (Table 3). Most of the ions mentioned do not disturb the determination of zirconium by means of the method suggested. The volt-ampere curves of the complexon III are shown on the background of 1 N sulfuric acid in Fig. 1. The construction of the rotating tantalum electrode is represented in Fig. 2. The titration curves of zirconium with complexon III at various concentrations of the sulfuric acid in the solution to be titrated are given in Fig. 3. The results of titration

Card 2/3

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

80659

Direct Ammetric Titration of Zirconium by Means of Complexon III and a Rotating Tantalum Microelectrode

S/153/60/003/02/07/034
B011/B003

of various zirconium amounts with complexon may be seen in Table 1. The same data, however, in the presence of foreign anions, are listed in Table 2. Mention is made of Yu. I. Usatenko and M. A. Vitkina. There are 3 figures, 3 tables, and 11 references, 6 of which are Soviet.

ASSOCIATION: Sredneaziatskiy gosudarstvennyy universitet im. V. I. Lenina; Kafedra analiticheskoy khimii ((Soviet) Central Asia State University imeni V. I. Lenin; Chair of Analytical Chemistry)

SUBMITTED: October 14, 1958

Card 3/3

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, G.V.

Graphic determination of the coefficient of resistance for the calculation of bridges used for automotive traffic. Trudy TISI 11:101-107 '64. (MIRA 19:1)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, I.N.

Review of a book on rail welding. Put' i put. khoz. 9 no.10:42 '65.
(MIRA 18:10)

1. Nachal'nik rel'sosvarochnogo predpriyatiya No.27, stantsiya Kastornaya-Novaya, Yugo-Vostochnoy dorogi.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, I.N.; SHAROV, I.F., kand.tekhn.nauk

Adopting a progressive method of rail welding. Put' i put.khoz. 9 no.5:23 '65. (MIRA 18:5)

1. Nachal'nik rel'sosvarochnogo poyezda, stantsiya Kastornaya-Novaya, Yugo-Vostochnoy dorogi (for Kvashnin). 2. Stantsiya Kastornaya-Novaya, Yugo-Vostochnoy dorogi (for Sharov).

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

SMOL'YANINOV, S.I.; STRAMKOVSKAYA, K.K.; SMIRNOV, A.P.; OLITSKIY, I.F.; KVASHNIN, S.A.

Removal of dust and tar from gases by electrostatic precipitation. Izv. TPI 126:91-97 '64. (MIRA 18:7)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

ACC NR: AP6033176 SOURCE CODE: UR/0079/66/036/010/1764/1766

AUTHOR: Tolkachev, O. N.; Kvashnina, L. P.; Preobrazhenskiy, N. A.

ORG: Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov (Moskovskiy institut tonkoy khimicheskoy tekhnologii)

TITLE: Synthetic studies in the area of curare alkaloids. Part 15: Synthesis of monomethyl ester of racemic N,N'-demethylchondodendrine

SOURCE: Zhurnal obshchey khimii, v. 36, no. 10, 1966, 1764-1766

TOPIC TAGS: alkaloid, curare, chemical synthesis

ABSTRACT: In view of the important physiological effect of the alkaloid d-tubocurarine, it appeared of interest to synthesize other (genetically related) alkaloids of tubocurare. The influence of the structural and spatial elements of the molecule on the physiological action of d-tubocurarine could thus be determined. Monomethyl ester of racemic N,N'-demethylchondodendrine (V) was synthesized so that it could be compared with the natural disecondary base chondrofoline. The synthesis was as follows:

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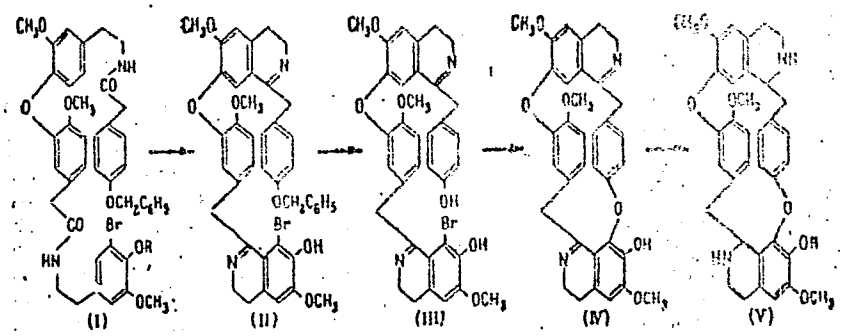
"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

ACC NR: AP6033176



Like the natural alkaloid chondrofoline, the cyclic bases (V) obtained give a negative reaction with Millon's reagent. UV spectra of their hydrochlorides are similar to those of d-tubocurarine. Orig. art. has: 1 figure.

SUB CODE: 07/ SUBM DATE: 07Jun65/ ORIG REF: 001/ OTH REF: 003

Card 2/2

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 36658-65 EWT(1)/EEC-4/EWA(h) Peb

ACCESSION NR: AP5007386 S/0286/65/000/004/0040/0041

AUTHOR: Kholodilov, N. N.; Kazutina, I. I.; Kvashinskiy, Yu. S. 18

TITLE: Shf band filter. Class 21, No. 168349 B

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 40-41

TOPIC TAGS: filter, shf band filter, resonator band filter

ABSTRACT: This Author Certificate introduces a shf band filter consisting of two resonators in contact along the generatrix and coupled by a lengthwise slot. To ensure smooth coupling control, a series of stubs of adjustable length are mounted along the slot. Orig. art. has: 1 figure. [DW]

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po radioelektronike SSSR (Organization of the State Committee on Radio Electronics, SSSR)

SUBMITTED: 28Feb64 ENCL: 00 SUB CODE: EC

NO REF SOV: 000 OTHER: 000 ATD PRESS: 3221

Card 1/1

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNEVSKAYA, M.

21(4) PHASE I BOOK EXPLOITATION SOV/2714

International Conference on the Peaceful Uses of Atomic Energy. 2nd, Geneva, 1958

Doklady sovetskikh uchenykh; yadernoye goryucheye i reaktornyye metally. (Reports of Soviet Scientists; Nuclear Fuel and Reactor Metals) Moscow, Atomizdat, 1959. 670 p. (Series: Its: Trudy, vol. 3. 8,000 copies printed.

Ed. (Title page): A.A. Bochvar, Academician, A.P. Vinogradov, Academician, V.S. Yemel'yanov, Corresponding Member, USSR Academy of Sciences, and A.P. Zefirov, Doctor of Technical Sciences; Ed. (Inside book): V.V. Pereverzev and G.M. Pchelintseva; Tech. Ed.: E.I. Mazel'.

PURPOSE: This volume is intended for scientists, engineers, physicians, and biologists working in the production and peaceful application of atomic energy; for professors and students of schools of higher technical education where the subject is taught; and for people interested in atomic science and technology.

COVERAGE: This is volume 3 of a 6-volume set of reports on atomic energy, presented by Soviet scientists at the Second International Conference on the Peaceful Uses of Atomic Energy, held in Geneva from September 1 to 13, 1958. Volume 3 consists of two parts. The first part, edited by A.I. Zubov, is devoted to geology, prospecting, concentration and processing of nuclear source material. The second part, edited by G.L. Zverev, includes 27 reports on metallurgy, metallography, processing technology of nuclear fuels and reactor metals, and neutron irradiation effects on metals. The titles of the individual papers in most cases correspond word for word with those in the official English language edition on the Conference proceedings. See SOV/2081 for the titles of the other volumes of the set.

Tishkin, A.I., G.A. Tsagareyev, G.D. Gladishev, I.V. Mil'nikov, V.A. Polikarpova, and M.S. Tsybul'skaya. Paragenetic Associations of Hydrothermal Uranium Minerals in Uranium Deposits of the Soviet Union (Report No. 2201) 110

Germanov, A.I., S.G. Batalin, G.A. Volkov, A.K. Lisitsin, and V.S. Serebrennikov. Some Regularities of Uranium Distribution in Underground Waters (Report No. 2499) 134

New Data on Uranium Minerals in the USSR (Report No. 2060) 160

Gremyakov, A.G., M.V. Kvashnevskaya, A.I. Nikonov, M.M. Sokolov, M.M. Kochergnov, S.A. Suzze, and [illegible] Tolstyx. Some Theoretical and Methodical Problems of Radiometric Prospecting and Survey (Report No. 2505) 199

Bulashevich, Yu. P. The Gamma-ray Emanation Method for Classifying Anomalies in Radioactivity (Report No. 2245) 218

Kovin, O.A., and M.I. Skrinichenko. Some Problems of Radiometric Uranium Ore Concentration (Report No. 2061) 227

Card 8/11

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNEVSKAYA, N.V.; SHABLOVSKAYA, Ye.I.

Studying the ore elements in the suspensions of river drifts.
Dokl. AN SSSR 151 no.2:426-429 Jl '63. (MIRA 16:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut razvedochnoy geofiziki. Predstavleno akademikom N.M.Strakhovym.
(Soviet Central Asia—Trace elements)
(Caucasus—Trace elements)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN A.

MATVEYEV, V.N., doktor tekhn. nauk; KVASHNIN, A.I., inzh.; GARNAYEV, Yu.A., letchik-ispytatel'.

Turbojet aircrafts. Tekh. mol. 26 no.1:18-22 '58. (MIRA 11:1)
(Airplanes--Jet propulsion)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, D. S. DECEASED 1963/1

c. 1955

MEDICINE

SEE ILC

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, I.N.

Improved tool. Put' i put. khoz. 8 no.5:34 My '64.
(MIRA 17:6)

1. Nachal'nik rel'sovarochnogo poyrezda No.27, stantsiya Kastornaya-Novaya, Yugo-Vostochnoy dorogi.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, I.N.

We shall fulfill the assignment ahead of schedule. Put' i put.khoz. no.7:11 '62. (MIRA 15:7)

1. Nachal'nik rel'sosvarochnogo predpriyatiya No.27, st. Kastornaya-Novaya, Yugo-Vostochnoy dorogi.
(Railroads—Rails)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

MITROFANOV, M.G.; STEPURO, S.I.; SEROV, V.V.; KVASHNIN, K.V.

Experience in the industrial purification of asphalt from sulfur-bearing crude with the aid of a selective double-solvent. Trudy GrozNII no.4:166-171 '59. (MIRA 12:9)
(Asphalt) (Petroleum--Refining)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

ZAKHAROV, N.N.; VASIL'YEV, T.I.; KVASHNIN, N.N.

The LBF paper filter for fine fuel cleaning. Avt.prom. no.1: 43-44 Ja '60. (MIRA 13:5)

1. Gosudarstvennyy soyuznyy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo avtomobil'nogo i avtomotornogo instituta.

(Filters and filtration)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

NEVZOROVA, Z.A., inzh.; KVASHNIN, P.I.; RAPPOPORT, M.A.(g.Nizhniy Tagil); VAREZHKIN, P.N. (g.Nizhniy Tagil)

New developments in the operation of approach tracks and adjacent stations. Zhel.dor.transp. 43 no.4:75-78 Ap '61. (MIRA 14:3)

1. Upravleniye Sverdlovskogo sovnarkhoza, st.Goroblagodatskaya (for Nevzorova). 2. Nachal'nik zheleznodorozhnogo tsekha Kushvinskogo metallurgicheskogo zavoda (for Kvashnin). 3. Nachal'nik tekhnicheskogo otdela upravleniya Sverdlovskoy dorogi (for Rappoport). 4. Glavnyy inzhener Nizhnetagil'skogo otdeleniya Sverdlovskoy dorogi (for Varezhkin).

(Railroads, Industrial)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, S., student; BARTOSHEVICH, V., assistent.

Mechanizing the sorting of grinding elements. TSement 22 no.5:21 S-O '56. (MLRA 10:1)

1. Novocherkasskiy politekhnicheskiy institut.
(Crushing machinery)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, S., arkhitektor; LEBEDEVA, Yu., arkhitektor

New designs of houses for experimental construction. Stroi.i arkhit. 8 no.6:14-15 Je '60. (MIRA 13:6)
(Apartment houses)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

GAL'TSOV, A.D.; DENISYUK, I.N.; LEVANDOVSKIY, S.N.; LOSEV, A.G.; PEZIK, M.O.; PETROCHENKO, P.F.; SAVOS'KIN, N.M.; TRUBITSKIY, G.R.; KHISIN, R.I.; KHROMILIN, V.A.; ALEKSEYEV, S.S., retsenzent; GAL'PERIN, L.I., retsenzent; GRANOVSKIY, Ye.N., retsenzent; ZAKHAROV, N.N., retsenzent; KVASHNIN, S.A., retsenzent; KEREKESH, V.V., retsenzent; KOTENKO, T.N., retsenzent; LIVSHITS, I.M., retsenzent; LERNER, G.V., retsenzent; NEVSKIY, B.A., retsenzent; NOVIKOV, V.F., retsenzent; RAZAMAT, E.S., retsenzent; SERGEYEV, A.V., retsenzent; STEFANOV, V.P., retsenzent; TOLCHENOV, T.V., retsenzent; FEDOTOV, F.G., retsenzent; VOL'SKIY, V.S., red.; STRUZHESTRAKH, Ye.I., red.; USPENSKIY, Ya.K., red.; SEMENOVA, M.M., red.izd-va; MODEL', B.I., tekhn.red.

[Handbook for work-norm experts in machine manufacture] Spravochnik normirovshchika-mashinostroitelia v 4 tomakh. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry. Vol.1. [Fundamentals of technical normalization] Osnovy tekhnicheskogo normirovaniia. 1959. 676 p. (MIRA 12:12)

(Standardization)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

PA 32/49T48

USSR/Engineering Sep 48
Efficiency, Industrial
Insulating Materials

"An Experiment in the Work of the Khot'khovo Plant of Insulating Materials to Economize in the Use of Alcohol and Increase Production," S. V. Kvashnin, Khot'khovo Plant of Insulating Materials, Min of Elec Ind, 4 pp

"Vest Elektro-Prom" No 9

Describes various methods to save and even dispense with alcohol in manufacture of "gepinax" and "textolite" insulating materials. Summarizes other

32/49T48

USSR/Engineering (Contd) Sep 48

recent advances in production methods. Includes sketch.

32/49T48

KVASHNIN, S. V.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, V. S.

PA 196T38

USSR/Electricity - Insulators
Literature

Aug 51

"Review of Yu. V. Koritskiy's Book 'Production of Mica Insulating Materials,'" V. S. Kvashnin, Chief Engr, of Plant of the Min of Elec Power Stations

"Elektrichestvo" No 8, pp 93, 94

Favorable review of subject book, which contains general survey of mica insulating materials produced by industry, technical data on these materials, basic data on the raw materials and semifinished products used in the

196T38

USSR/Electricity - Insulators
(Contd)

Aug 51

production of micanites, and brief description of the equipment required and problems of sanitation and safety.

196T38

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, V.S.; KRESTOV, N.I.; KUDRYAVTSEV, V.V.; REKST, V.B.; TAREYEV, B.M., redaktor; LARIONOV, G.Ye., tekhnicheskiy redaktor.

[New production techniques for laminated electric insulators] Novaia tekhnologiia proizvodstva sloistykh elektroizoliatsionnykh materialov. Moskva, Gos. energ. izd-vo, 1953. 51 p.
(Electric insulators and insulation) (MLRA 7:8)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 13365-63 EWP(j)/BDS/EWT(m)/ES(s)-2 ASD/ESD-3/SSD Pc-4/
Pt-4 RM

ACCESSION NR: AP3003307 S/0191/63/000/007/0028/0031

AUTHORS: Andrianov, K. A; Krestov, N. I.; Rakat, V. B; Kudryavtsev, V. V.; Kvashnin, V. S.

TITLE: The production of dielectric laminates with non-alcoholic phenolformaldehyde resins

SOURCE: Plasticheskiye massy, no. 7, 1963, 28-31

TOPIC TAGS: laminate, phenolformaldehyde, resin, paraformol, cresol, polyoxymethylene

ABSTRACT: The scope of this study is to produce liquid phenolformaldehyde resins without the use of alcohols which are to be used in the production of laminates. A new method for the preparation of liquid non-alcoholic phenolformaldehyde resins in which a large portion of formaldehyde is replaced by paraformol has been obtained. The ratio of intermediates is taken in such proportions that the water from formaldehyde and from the condensation is used in the formation of the liquid resin. This eliminates many steps from the process such as decantation or distillation, or vacuum drying by which the excess water is removed, the purification step of removing the undesirable by-products. Since there are no losses, the amount of

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, Ye.D.

AMPILOGOV, I.F., gornyy inzhener; KVASHNIN, Ye.D., gornyy inzhener.

Theory and practice of ring timbering. Gor. zhur. no.5:54-57 My '57.
(Mine timbering--Equipment and supplies) (MIRA 10:6)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, Yu.K.

Some proposals for the improvement of surgical instruments and apparatus used for diagnosis and treatment (a survey of papers received by the editor). Khirurgiia 32 no.6:80-83 Je '56. (MIRA 9:10)

(APPARATUS AND INSTRUMENTS)
improvement of surg. instruments & appar. used for diag. & ther.)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KUPRIYANOV, P.A., otv. red.; KVASHNIN, Yu.K., red.; KHARASH, G.A., tekhn. red.

[Pirogov lectures for 1956] Pirogovskie chteniia 1956 goda. [Leningrad] Gos. izd-vo med. lit-ry, Leningr. otd-nie, 1957. 38 p. (MIRA 11:10)

1. Akademiia meditsinskikh nauk SSSR. 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR(for Kupriyanov)
(Pirogov, Nikola Ivanovich, 1810-1881)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN, Yu.K.

KVASHNIN, Yu.K.

Cases of bronchiectatic disease. Khirurgiia 33 no.6:127-129 Je '57. (MIRA 10:12)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (dir. - chlen-korrespondent AMN SSSR prof. B.V. Petrovskiy) pediatricheskogo fakul'teta II Moskovskogo gosudarstvennogo meditsinskogo instituta imeni I.V.Stalina

(LUNGS, for. body causing bronchiectasis)
(BRONCHIECTASIS, etiol. and pathogen. for. body in lungs)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

PANTSYREV, Yu.M.; KVASHNIN, Yu.K.

Gastrectomy in the light of certain late results [with summary in English]. Vest.khir. 82 no.2:28-33 F '59. (MIRA 12:2)

1. Iz gospital'noy khirurgicheskoy kliniki (zav. - prof. V.S. Mayat) lechebnogo fakul'teta i fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. A.A. Busalov) pediatricheskogo fakul'teta 2-go Moskovskogo meditsinskogo instituta imeni N.I. Pirogova. Adres Yu.M. Pantsyreva: Moskva, Leninskiy pr., d.27, 5-ya Sovetskaya bol'nitsa, gospital'naya khirurgicheskaya klinika lechebnogo fakul'teta 2-go Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

(GASTRECTOMY
remote results (Rus))

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN-SAMARIN, S. I.

KVASHNIN-SAMARIN, S. I.: "The architecture, construction, and method of erecting multi-story residence buildings using prefabricated three-dimensional structural elements." Min Higher Education USSR. Leningrad Order of Labor Red Banner Construction Engineering Inst. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science.)

Knizhnaya Letopis'
No 32, 1956. Moscow.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN-SAMARIN, S.I.

KVASHNIN-SAMARIN, S.I., inzh.-arkhitektor.

Multistory apartment houses built with large precast elements. Stroi.prom. 35 no.11:18-23 N '57. (MIRA 10:12)
(Apartment houses)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNIN-SAMARIN, S., kand.tekhn.nauk

Houses made of three-dimensional bearing elements with free planning of apartments. Na stroi.Ros. no.3:34-36 Mr '61. (MIRA 14:6)
(Apartment houses) (Buildings, Prefabricated)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNINA, A. S.

"On the stability of the Fibrinolytic Properties of Bacteria," Zhur Mikrobiol, Epidemiol i Immunobiol, 1950, No. 5

Mikrobiologiya, Vol. XX No. 5, 1951. 00-N-24635.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHINA, A. S., Doc Med Sci -- (diss) "Fibrinolytic capacity and its significance in the pathogenic action of micro-organisms." Moscow, 1960. 30 pp; (Ministry of Public Health USSR, Central Inst for the Advanced Training of Physicians); 300 copies; price not given; (KL, 29-60, 126)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

SLYSHKO, Vasiliy Nikolayevich, prof.; KVASHNINA, A.S., red.;
YEVDOKIMOV, M.M., tekhn. red.

[Coxsackie diseases] Bolezni kokseki. Rostov-na-Donu. Rostovskii med.in-t, 1961. 137 p. (MIRA 15:6)
(COXSACKIE VIRUSES)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNINA, A.S.

Relation of the toxic properties of hemolytic streptococcus to its fibrinolytic activity. Zhur.mikrobiol.epid.i immun. 33 no.5:53-57 My '62. (MIRA 15:8)

1. Iz Respublikanskogo instituta malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya RSFSR.
(STREPTOCOCCUS) (FIBRINOLYSIS)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNINA, Dar'ya Mikhaylovna; KOZHUKHOVA, D.S., red.; BOL'SHAKOVA, ~~L.A., tekhn. red.~~

[Smoking fish]Kopchenie ryby. Arkhangel'sk, Arkhangel'skoe knizhnoe izd-vo, 1959. 58 p. (MIRA 15:12)
(Fish, Smoked)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

ACC NR: AP7005749 SOURCE CODE: UR/0126/67/023/001/0003/0014

AUTHOR: Kvashnina, L. B.; Krivoglaz, M. A.

ORG: Institute of Metal Physics, AN UkrSSR (Institut metallofiziki AN UkrSSR)

TITLE: Mossbauer spectra in non-ideal crystals

SOURCE: Fizika metallov i metallovedeniye, v. 23, no. 1, 1967, 3-14

TOPIC TAGS: Mossbauer spectrum, crystal defect, crystal deformation, crystal lattice energy, Zeeman effect

ABSTRACT: The effect of randomly distributed defects in non-ideal crystals on the spectral distribution of the Mossbauer line is investigated. The pattern of this distribution is largely determined by the decrease in perturbation energy with increasing distance to the defect and it differs for different types of defects. Owing to the displacement of the energy terms of Mossbauer nuclei at various distances from the defects, the resulting Mossbauer spectrum gets blurred. Blurred distributions of this kind are considered for several types of defects, chiefly those creating relatively slowly decreasing distortion fields (screw and edge dislocations, dislocation loops, new-phase particles). Estimates of the extent of broadening of

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ACC NR: AP7005749

the Mossbauer line are presented; it is shown that in strongly deformed crystals this broadening is comparable with the natural width of Fe^{57}: $\gamma = 4.5 \cdot 10^{-9}$ ev. The defects present in the neighborhood of a given nucleus influence the electron and spin densities of the nucleus, the force constants and the gradient of the electrical field, which leads to changes in the isomeric and relativistic displacements of energy levels as well as in Zeeman and quadrupole splitting. Orig. art. has: 30 formulas.

SUB CODE: 20/ SUBM DATE: 15Jun66/ ORIG REF: 006/ OTH REF: 005

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

L 3345-66 EWT(1)

ACCESSION NR: AP5017297 UR/0181/65/007/007/2047/2057

AUTHORS: Ivanov, M. A.; Kvashnina, L. B.; Krivoglaz, M. A.

TITLE: Spectral distribution of local oscillations

SOURCE: Fizika tverdogo tela, v. 7, no. 7, 1965, 2047-2057

TOPIC TAGS: Green function, correlation function, spectral distribution, ir absorption, neutron scattering

ABSTRACT: The temperature Green's function method is used to calculate the local-oscillation correlation function which determines the spectral distribution of the coefficient of infrared absorption of light and inelastic scattering of neutrons by these oscillations. It is shown that the broadening of the spectral distribution can be due both to the finite lifetime of the excitations and to the fluctuation modulation of the local-oscillation frequencies. The modulation broadening due to the interaction of the local oscillations with one another and with the oscillations of the continuous spectrum, and also with the fourth-order terms with respect to the coordinate of

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L 3345-66

ACCESSION NR: AP5017297

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the given oscillations, are considered. It is shown that the modulation broadening can become comparable with the broadening due to the finite lifetime. The modulation effects can lead also to the appearance of a fine structure in the spectral distribution. Orig. art. has: 32 formulas

ASSOCIATION: Institut metallofiziki AN UkrSSR, Kiev (Institute of Metal Physics AN UkrSSR) 44,55

SUBMITTED: 18Jan65 ENCL: 00 SUB CODE: NP, OP

NR REF SOV: 008 OTHER: 008

Card 2/2 DP

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

KVASHNINA, S.S. (Moskva); CHERNYY, G.G. (Moskva)

Steady streamlining of a cone by a flow of detonating gas. Prikl.mat. i mekh. 23 no.1:182-186 Ja-F '59. (MIRA 12:2)
(Aerodynamics)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

69303

S/179/60/000/01/028/034
E081/E535

24.5300

AUTHOR: Kvashnina, S.S. (Moscow)

TITLE: The Dependence of Internal Energy of Air on Pressure and Density at High Temperatures

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1960, Nr 1, pp 178-179 (USSR)

ABSTRACT: The connection between the internal energy of a medium and its pressure and density, is called the thermal equation of state, $\varepsilon = \varepsilon(p, \rho)$. For an ideal gas, the internal energy depends on one parameter $z = p/\rho$, and the the thermal equation takes the form:

$$\varepsilon = \frac{z}{\gamma - 1} \qquad \left(\gamma = \frac{c_p}{c_v}\right)$$

At high temperatures of the order of thousands and tens of thousands of degrees the dissociation and ionisation processes which occur appreciably influence the thermodynamic properties of air (Ref 1). The internal energy in this case is determined by the two parameters:

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E081/E535

The Dependence of Internal Energy of Air on Pressure and Density at High Temperatures

pressure and density. The thermodynamic functions of air at temperatures from 6000 to 20000°K and from 0.001 to 1000 atmospheres have been calculated and tabulated (Refs 2,3). For the solution of various problems in gas dynamics it is, however, more convenient to use analytical relationships than tabulated data. Such relations can be derived approximately from the tables. The approximate relationship $\varepsilon = \varepsilon(p, \rho)$ in the temperature interval 12000 to 20000°K and pressure from 1 to 1000 atm is derived in the present paper. The figure represents the relationship $\varepsilon(z)$ for various pressures p. (All values are related to the corresponding parameters at p = 1 atm, T = 12 000°K). The linear relationship $\varepsilon(z)$ for an ideal gas with $\gamma = 1.4$ is also shown (broken line). The curves can be approximately represented by straight lines having different angles of inclination and intersection with the ε axis in different segments. The deviation from

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

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E081/E535

The Dependence of Internal Energy of Air on Pressure and Density at High Temperatures

the straight line at the ends of a segment can be allowed for by additional terms of the form exp az. The following general formula is suggested for the approximation:

$$\varepsilon = a_1 z + a_2 + a_3 \exp a_4 z + a_5 \exp a_6 z$$

$$(a_i = a_{i1} p^2 + a_{i2} p + a_{i3}) \quad (i = 1, \ldots\ldots 6)$$

For p is in atmospheres, ρ in g/cm^3 and ε in cal/g, the values of a_{ik} (k = 1,2,3) are given in the paper (bottom half of p 178). The possible relative errors on using the approximate formula do not exceed 4%. There are 1 figure and 3 Soviet references.

SUBMITTED: October 16, 1959

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APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

Kvashnina, S. S.

81831

S/179/60/000/02/004/032
E081/E241

10,2000

AUTHORS: Kvashnina, S. S., and Korobeynikov, V. P., (Moscow)

TITLE: Solution of Some Problems of the Motion of Air, Allowing for Dissociation and Ionisation

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Mekhanika i mashinostroyeniye, 1960, Nr 2, pp 34-41 (USSR)

ABSTRACT: At moderate pressures, and temperatures below 1000°K, the properties of air are adequately described by the equation of state for a perfect gas $p = R\rho T/\mu$, with constant heat capacity, constant γ ($= C_p/C_v$) and constant molecular weight μ. At temperatures above 1000°K, the heat capacity depends on temperature, and above 2000°K dissociation of molecules and ionisation of atoms occur, both of which appreciably affect all thermodynamic properties, so that internal energy, enthalpy and sound velocity depend not only on temperature, but also on density or pressure. Below 1000°K, the enthalpy h depends on sound velocity (a) according to $h = a^2/(\gamma - 1)$. Between 1000 and 20 000°K the relationship is expressed by Eqs (1.1) and (1.2) where

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"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6

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S/179/60/000/02/004/032
E081/E241

Solution of Some Problems of the Motion of Air, Allowing for Dissociation and Ionisation

α, β, σ, J are functions of S, obtained from tabulated data and h_*, a_*, S_* are the values of h, a, S (entropy) at T = 1000°K, and p = 1 atm (h_* = 250.1 cal/gm, a_* = 618.9 m/sec, S_* = 1.943 cal/gm deg). Table 1 gives the values of α, β and c in the first equation (1.1) for various temperature intervals, together with the mean errors of approximation. Table 2 gives the corresponding data for the second Eq (1.1). Using the first Eq (1.1) and the known thermodynamic relationship (1.3), the Eqs (1.4) to (1.7) are obtained for determining the thermodynamic parameters required in solving the following problems.

(1) Riemann waves in a dissociating gas. If s is constant everywhere in the flow region, a particular solution (Ref 8) is known for the gas dynamic equations with one dimensional flow and plane waves. This solution can be written in the form (2.1) where f(a) is an arbitrary function, v is the velocity and r is a coordinate. For a perfect gas $v(c) = \pm 2a_* (C - C_0)/(\gamma - 1)$, C_0 = const. In the presence of dissociation, using Eq (1.1), v(c) is given by (2.2). The time t_b and

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Solution of Some Problems of the Motion of Air, Allowing for Dissociation and Ionisation

the coordinate r_b at which a shock wave arises are found from the conditions (2.3). For waves propagated in the positive direction, Eqs (2.1) to (2.3) lead to (2.4) where the derivatives are calculated at the point $C = C_b$. If the compression waves are adjacent to stationary gas and the shock waves arise at the boundary, the conditions (2.4) may be written as (2.5). If a plane piston moves in a sufficiently long tube according to the law $dr_p/dt = U = kt$, with $T_0 \geqslant 1000$, the table on p 38 gives the value of Δ (the ratio of t_b in air to t_b in an ideal gas) for various initial temperatures and entropies. As $k \to -\infty$, one obtains flow of gas into a vacuum, accompanied by recombination. Using the solution (2.1) for this case and taking the initial data: $a_0 = 1300$ m/sec, $S = 2.118$ cal/g deg, the solid lines in Fig 1 are obtained; the dashed lines represent the curves for an ideal gas. The velocity of flow into a vacuum $v(0) = -8780$ m/sec for air and $v(0) = -6490$ m/sec for an ideal gas.

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(2) Calculation of the parameters at the braking point. Using the thermodynamic functions (1.1) to (1.7), the parameters at the first discontinuity and the values of T_0, p_0, ρ_0 can be calculated at the braking point for the motion of a blunt body in air with supersonic velocity.* The results of the calculations are given in Table 3 for air and ideal gas.

* The first line corresponds to values determined from tables (Ref 7), the second to formulae (1.1), (1.7).

It is evident from the table that dissociation and ionisation lead to considerable lowering of temperature at the discontinuity and at the braking point in relation to an ideal gas and to an increase in pressure and density. The pressure, however, changes relatively little.

(3) Expansion of a piston in quiescent air with constant velocity. The system of equations for the motion of air at the front of a shock wave may be written in the form (4.1). According to Ref 10 these equations may be transformed to a system of ordinary differential equations (foot of p 39) by the transformation using the dimensionless parameters

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$$\lambda = \frac{r}{Dt}, \quad V = \frac{t}{r} v, \quad H = \frac{h}{D^2}$$

where D is the shock wave velocity. The values $\nu = 1, 2, 3$ correspond to plane, cylindrical and spherical pistons. At the shock wave front $\lambda = 1$ and V, H are known values from calculations at the first discontinuity (Ref 9). Calculations have been carried out for $\nu = 2$, $D/a_1 = 8.085$, $p_1 = 1$ atm, $T_1 = 288°K$, and are plotted in Figs 2 and 3 (the dashed curves are for a perfect gas). The pressure and density at a shock wave in air are higher and the temperature lower than in a perfect gas. The influence of dissociation on sound velocity is small.

(4) The flow around a cone with zero angle of attack. This problem leads to the integration of Eq (5.1) with the boundary conditions (5.2) and (5.3), where u is the velocity component along the cone axis, v is the component perpendicular to the axis, ω_2 is the angle of the discontinuity and the index k signifies a magnitude at the surface of the cone. Calculations

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were carried out for M_1 (Mach number) = 14, $\omega_2 = 30^\circ$, p_1 = 1 atm, $T_1 = 288^\circ$. Comparison with the results for an ideal gas shows that the temperature at the cone allowing for dissociation may be 1.5 times the temperature with an ideal gas. For air, $\omega_k = 27^\circ 28'$; for an ideal gas $\omega_k = 26^\circ 36'$. Sound velocity at the discontinuity changes very little. Density and flow at the front of the shock wave are relatively more affected. Thanks are expressed to R. P. Agafonov, L. G. Balashov, L. I. Sedov, G. G. Cherniy and Ye. V. Samuylov (Energetics Institute AS SSSR) for assistance. There are 3 figures, 3 tables and 12 references, 8 of which are Soviet and 4 English.

SUBMITTED: July 17, 1959

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KVASHNINA, V.I. (Moskva G-117, Pogodinskaya ul,, d. 2/3, kv.143)

So-called nonosteogenic fibromas as foci of pathological changes in the bones. Ortop. travm. protez. 24 no.7:23-30 Jl'63 (MIRA 17:2)

1. Iz Detskogo kostnotuberkuleznogo sanatoriya "Krasnaya Roza" (glavnyy vrach - V.D.Krasil'nikova. nauchnyy konsul'tant - zasluzhennyy deyatel' - nauki prof. S.A. Reynberg).

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KVASHNINA, V.I. (Moskva G-117, ul. Pogodina, d.2/3, kv.143)

Differential diagnosis of chondroblastoma and osteoarticular tuberculosis. Ortop., travm. i protez. 25 no.3:32-37 Mr '64. (MIRA 18:3)

1. Iz detskogo kostnotuberkuleznogo sanatoriya "Krasnaya Roza" Moskovskogo gorodskogo otdela zdravookhraneniya (glavnyy vrach - V.D.Krasil'nikova, nauchnyy konsul'tant - zasluzhennyy deyatel' nauki prof. S.A.Reynberg).

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KVASHNINA, YE. I.

USSR/Metals - Steel, Composition, Properties Aug 51

"Effect of Calcium on Properties of Carbon Steel," N. S. Kreshchanovskiy, Cand Tech Sci, Ye. I. Kvashnina, Engr, TsNIITMASH

"Litey Proiz" No 8, pp 21, 22

Expts for introducing calcium into 0.2 and 0.3% carbon steel revealed that calcium eliminates columnar crystn, promotes fine-cryst structure, eliminates Widmanstaetten structure in cast steel and increases plasticity. Addn of silicocalcium has no effect on primary and secondary crystn, but strength and plastic properties of steel are considerably improved. Illustrated by macro- and micrographs.

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Dissertation: "Temper Brittleness of Structural Steel." Cand Tech Sci, Central Sci Res Inst of Technology and Machine Building, Moscow, 1953. Referativnyy Zhurnal—Khimiya, Moscow, No 8, Apr 54.

SO: SUM 284, 26 Nov 1954

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000928310011-6"