

Isingteknika

KALININ, S.K.; NAYMARK, L.M.; MARZUVANOV, V.L.; ISMAGILOVA, K.I.;
RUSANOV, A.K., professor, doktor tekhnicheskikh nauk, redaktor;
POTAPOV, V.S. redaktor izdatel'stva; GUROVA, O.A., tekhnicheskiy
redaktor

[Atlas of spectrum lines for a glass spectrograph; explanatory
text and 26 diagrams] Atlas spektral'nykh liniy dlia stekliannogo
spektrografa; poiasnitel'nyi tekst i 26 planshetov. Pod red.
A.K. Rusanova. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol.
i okhrane nedr, 1956. 45 p., 26 l. (MLBA 10:4)
(Spectrum analysis--Tables, etc.)

ISMAGULOVA, K. I., KALININ, S.K., MARZUVANOV, V. I., and RAYBARA, E. E.

Atlas Spektral'nykh Linii dlya Steklyannogo Spektrograf (Atlas
of Spectral Lines for Glass Spectrographs), Moscow, Gosgeolizdat, 1956

ISMAGULOVA, K.I.

PHASE I BOOK EXPLOITATION SOV/4405

Kalinin, Sergey Ksenofontovich, Vasilii Leonidovich Marzuvanov,
Lyubov' Efroyimovna Naymark, and Kul'tay Ismagulovna
Ismagulova

Atlas spektral'nykh liniy dlya steklyannogo spektrografa (Atlas
of Spectrum Lines for the Glass Spectrograph) [2d ed., rev.]
Alma-Ata, Izd-vo AN KazSSR, 1960. 61 p. Errata slip in-
serted. 2,000 copies printed.

Sponsoring Agency: Akademiya nauk Kazakhskoy SSR.

Ed.: V. V. Aleksandriyskiy; Tech. Ed.: Z. P. Rorokina.

PURPOSE: This atlas is intended for spectroscopy experts work-
ing on the analysis of ores, metals, and alloys.

COVERAGE: The atlas contains photographs of an arc spectrum
of iron in the range of 3718-9010 Å on which the location
of more than 1,300 of the most intensive spectral lines of
81 elements, including inert gases and plutonium, are re-
corded. Wavelength tables of spectrum lines include

Card ~~1/10~~

ISMAGULOVA, Kh. Sh.

GERBST, V.V., doktor meditsinskikh nauk, professor; LOPATINA, A.A.;
ISMAGULOVA, Kh. Sh.; BRATUKHINA, L.V. (Ust' - Kamenogorsk)

Preventing the progress of silicosis. Klin.med. 33 no.4:29-32 Ap
'55. (MLRA 8:7)

1. Iz silikoznogo sanatoriya "Gornyak" (konsul'tant i nauchnyy
rukovoditel' -prof. V.V.Gerbst, glavnyy vrach A.A.Lopatina).
(SILICOSIS, therapy,
prev. of progr. of dis.)

GERBST, V.V., prof., ISMAGILOVA, ~~Er.Sh.~~, BUTORINA, A.N.

Compound therapy for silicosis in sanatoriums. Vrach.delo no.3:301-303
Mr'58 (MIRA 11:5)

1. Ust'-Kamenogorsk, Vostochno-Kazakhastenskoy obl., Sanatoriy
"Gornyak."
(LUNGS--DUST DISEASES)

NIKONOVA, T.N., kand.med.nauk; ISMAGULOVA, M.D.; RODOV, M.N.

Recurrence of typhoid fever in children treated with anti-
biotics. Zdrav.Kazakh. 17 no.10/11:80-84 '57. (MIRA 12:6)

1. Iz kafedry detskikh infektsionnykh bolezney Kazakhskogo
meditsinskogo

(TYPHOID FEVER)

(ANTIBIOTICS)

ENDOCRINOLOGY

HUNGARY/UNITED ARAB REPUBLIC

ISMAIL, A. A., EL-RIDI, M. S. ABDEL-HAY, A., KAMEL, G., TALAAT, M., El Mofly Metabolic and Endocrine Research Unit, Biochemistry Department, Faculty of Medicine, Cairo; and TAPOUZADA, Salwa, National Research Centre, Dokki, both in the United Arab Republic.

"Interrelation Between Thyroid Hormones and Essential Fatty Acids"

Budapest, Acta Physiologica Academiae Scientiarum Hungaricae, Vol 29, No 3-4, 8 Jun 1966, pp 225-234.

Abstract: [English article] Since both fatty acids and thyroid hormones are frequently used as hypocholesterolaemic agents, the authors investigated the effect of thyroid hormone administration on rats maintained on a synthetic diet deficient in essential fatty acids. The deficiency reduced fertility in both sexes; fetuses were absorbed in some cases and the females failed to lactate. Triiodothyronine, in doses of 1.0 μ g /rat/day markedly enhanced the essential fatty acid deficiency; thyosine, in doses of 10 μ g /rat/day showed no such effect. The symptoms disappeared upon treatment with highly unsaturated fatty acids in doses of 0.1 ml /rat/day. 26 references, including 1 German and 25 Western. (Manuscript received 21 Jun 1965).

1/1

ISMAILOV, A.; MESHCHERYAKOV, V.

Tajikistan highways during 40 years. Avt. dor. no.10:
17-19 O '64. (MIRA 17:12)

1. Ministr transporta i dorozhnogo khozyaystva Tadzhikskoy
SSR (for Ismailov). 2. Nachal'nik proizvodstvenno-tekhnicheskogo
otdeleniya Upravleniya shosseynykh dorog (for Meshcheryakov).

~~IMAILOV, A. I.~~ IMAILOV, A. I.

Dissertation: "Spectroscopic Investigation of Solar Flocculi Fields." Cand Phys-Math Sci,
Main Astronomical Observatory, Leningrad, 1954. (Referativnyy Zhurnal--Fizika, Moscow, Jun 54)

SO: SUM 318, 23 Dec 1954

ISMAILOV, A.A.

Bright flocculi in Ca II lines. Isv. AN Azerb. SSR no. 8:11-15 Ag'55
(Sun--Flocculi) (MIRA 9:1)

ISMAILOV, A.A.

Sun faculae in hydrogen lines H_{γ} and H_{β} . Izv.AN Azerb.SSR no.7:
3-7 J1 '56. (MIRA 9:10)
(Sun--Faculae) (Hydrogen--Spectra)

ISMAILOV, A.A.

Fortieth anniversary of the founding of the N.A.Semashko City
Clinical Hospital. Azerb. med. zhur. no.4:76-80 Ap '60.
(MIRA 14:5)

(BAKU—HOSPITALS)

ISMAILOV, A.A., kand.med.nauk; ATAYEV, B.A., ordinator

Method in Gritti's amputation without application of a tourniquet.
Azerb. med. zhur. no. 5:48-49 My '61. (MIRA 14:4)

1. Iz ob'yedinennoy bol'nitsy nefterazvedchikov (glavnyy vrach -
G.N. Aliyev, zav. khirurgicheskim otdeleniyem - A.A. Ismailov).
(AMPUTATION) (BLOOD—CIRCULATION, DISORDERS OF)

ISMAILOV, A.A.; ATAYEV, B.A.

Case of spontaneous exit of a foreign body through the bronchus.
Azerb.med.zhur. 42 no.1:89-92 Ja '65.

(MIRA 18:5)

ISMAILOV, A.G. [deceased]; MAMEDOVA, L.Z.; ALEKPEROVA, S.A.

Solubilization of hydrocarbons in aqueous solutions of soaps
of naphthenic acids. Effect of the nature of hydrocarbons.
Uch. zap. AGU. Fiz.-mat. i khim. ser. no.4:73-76 '59.

(Hydrocarbons) (Naphthenic acids)

(MIRA 16:6)

30218

53600

S/081/61/000/019/058/085
B117/B110

AUTHOR: Ismailov, A. G.

TITLE: Catalytic condensation of toluene with 1,2-dichloro ethane

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1961, 322, abstract
19L19 (Azerb. khim. zh., no. 1, 1961, 23 - 30)

TEXT: The condensation of toluene with 1,2-dichloro ethane in the presence
of an Al-TiCl₄ mixture is described. Optimum conditions were established
for the preparation of symmetric ditolyl ethane. It has been shown that
finished AlCl₃ can be replaced by commercial aluminum powder with TiCl₄
or AlCl₃ additions as initiator. [Abstracter's note: Complete trans-
lation.]

Card 1/1

GINZBURG, I.S.; ISMAILOV, A.G.

Report on the activity of the Azerbaijan Oncological Society.

Vop.onk. 5 no.11:631 '59.

(MIRA 14:7)

(AZERBAIJAN--ONCOLOGICAL SOCIETIES)

MEKHTIYEV, S.D.; ISMAILOV, A.G.; SAFAROV, I.G.

Condensation of the chlorides of paraffin naphthenic acids
with ethylene in the presence of $AlCl_3$. *Izv. Akad. khim. zhur. no5.:*
17-22 '63 (MIRA 17:8)

L 39998-66 EWT(m)/EWP(j)/T IJP(e) WW/JW/JWD/RM

ACC NR: AP6018897

(A)

SOURCE CODE: UR/0152/66/000/001/0059/0062 4/

AUTHOR: Ismailov, A. G.; Makhliyev, S. D.; Salimova, B. A. BORG: Azerbaydshan Petroleum and Chemistry Institute im. M. Azisbekov (Azerbaydzhanskiy institut nefti i khimii)TITLE: Esters of petroleum naphthenic acids with mono- and polyhydric alcohols and phenols

SOURCE: IVUZ. Neft' i gaz, no. 1, 1966, 59-62

TOPIC TAGS: ester, phenol, alcohol, esterification, plasticizer, *PETROLEUM*

ABSTRACT: Esters formed by petroleum naphthenic acids with ethylene chlorohydrin, allyl alcohol, cyclohexanol, benzyl alcohol, di-triethylene glycol, glycerin, pentaerythritol, alkyl phenols, phenol, diphenylpropane, hydroquinone, naphthols, etc. were synthesized by reacting these alcohols and phenols with acid chlorides. The effect of solvents and ratio of reactants on the yield and direction of the reactions was studied. The esterification of phenols was easier, and narrower fractions of the target products were obtained in higher yields than in the case of alcohols. Preliminary tests of the synthesized esters for their plasticizing properties in polyvinyl chloride (PVC) resins and nitrocellulose showed that diethylene glycol esters of petroleum naphthenic acids in a 1:1 mixture with dibutyl phthalate in the proportion of 60 pts. by wt. of ester mixture per 100 pts. of PVC behave satisfactorily, and the

Card 1/2

UDC: 661.726.001.5:547.657

L 39986-65

ACC NR: AP6018897

films have a good external appearance and physicochemical properties. Orig. art. has: 6 tables. 0

SUB CODE: 07/ SUBM DATE: 09Aug65/ ORIG REF: 001

L 23007-66 ENT(m)/T DJ/WE

ACC NR: AP6007670

(A)

SOURCE CODE: UR/0413/66/000/003/0043/0043

AUTHOR: Terteryan, A. B.; Ivanynkov, D. V.; Agayeva Aga-Kyey, S. M.; Grachev, D. S.; Yermokhin, V. V.; Ismailov, A. G.; Kupriyanova, L. A.; Nadirova, M. M.; Terteryan, S. A.

24
B

ORG: none

TITLE: Deparaffination of distillate petroleum products. Class 23, No. 178436

SOURCE: Isobreteniya, promyshlennyye obrastey, tovarnyye znaki, no. 3, 1966, 43

TOPIC TAGS: deparaffination, petroleum product, petroleum refining

ABSTRACT: An Author Certificate has been issued for a method describing the dewaxing of petroleum products using carbamides. The carbamide is introduced in the form of a solution in isopropyl alcohol during the process for separating normal paraffin hydrocarbons. The latter is carried out without the use of filters. [LD]

SUB CODE: 11/ SUBM DATE: 11Jul57

Card 1/1 *plu*

UDC: 665.545.3:547.491.2

2

~~Исследования~~ . . . ИСМАИЛОВ, Н.И.

Dissertation: "Characteristics of the Chemical Composition and Anti-Intestinal Worm Action of Seeds of Certain Kinds of Gourds Cultivated in Azerbaydzhan." Cand Pharm Sci, Azerbaydzhan State Medical Inst, 27 May 54. Bakinskiy Rabochiy, Baku, 20 May 54.

SO: SUM 284, 26 Nov 1954

USSR/Pharmacology. Toxicology. Cardiovascular Drugs

V

Abs Jour : Ref Zhur - Biol., No II, 1958, No 51997

Author : Aliyev R.K., Allakhverdibekov G.B., Taglisi, D.G.,
Ismailov A.I.

Inst : ~~Azerbaijan~~ University

Title : On the Characteristics of the Chemical Composition of the
Leaves and Roots of Petroselinum Sativum Hoffm.,
Cultivated in Azerbaidjan and the Effects of its Prepara-
tions Upon the Cardi-vascular System

Orig Pub : Uch. zap. Azerb. un-t, 1955, No 2, 53-62

Abstract : The leaves and roots of petroselinum sativum Hoffm. contain
alkoloids, glycosides, saccharides, aromatic oils, or-
ganic acids and vitamins C and K. It was demonstrated in
experiments on mice, which received subcutaneosly 1 ml
doses of a 20-30 percent aqueous infusion and decoction
of leaves of roots of Petroselinum, that these prepara-
tions had a depressing effect upon the C.N.S. The effect
of extracts from the leaves was weaker than that from the

Card : 1/2

~~ISMAILOV, A.I.~~

ALIYEV, P.K.; ISMAILOV, A.I.

Some substitutes for seed emulsions. Dokl, AN Azerb. SSR 11
no.1:43-48 '55. (MIRA 8:10)

1. Predstavleno deystvitel'nyy AN Azerbaydzhanskoy SSR M.A.Mir-
Kasimovym.

(Gunshot wounds)

ALIYEV, R.K.; ALLAKHVERDIBEKOV, G.B.; TAGDISI, D.G.; ISMAILOV, A.I.

Chemical composition of the herbage and roots of parsley, cultivated in Azerbaijan, and effect of parsley preparations on the cardiovascular system. Uch.zap. AGU no.12:53-62 '55. (MLRA 9:11)
(Azerbaijan--Parsley) (Cardiac glycosides)

ISMAILOV, A.I.

ALIYEV, R.K.; ALLAKHVERDIBEKOV, G.B.; TAGDISI, D.G.; ISMAILOV, A.I.

Characteristics of the chemical composition and certain pharmacological properties of garden lettuce. Uch.zap.AGU no.8:59-69 '56. (MLRA 10:4)

(Lettuce) (Pharmacology)

SADYKOV, A.S., akademik; ISMAILOV, A.

Gossypol substituting pyrogallol for quantitative determination of oxygen. Izv. AN Uz. SSR. Ser. khim. nauk. no.3:95-98 '57.
(MIRA 11:9)

1. AN UzSSR (for Sadykov).
(Gossypol) (Pyrogallol) (Oxygen)

SADYKOV, A.S.; ISMAILOV, A.

Accumulation dynamics of gossypel in cotton. Izv. AN Uz. SSR.

Ser. khim. nauk no.4:79-83 '57.

(MIRA 11:9)

(Gossypel) (Cotton)

ISMAILOV, A., Cand Chem Sci (diss) -- "Chemical investigation of gossypol, the specific pigment of cotton". Tashkent, 1959. 20 pp (Acad Sci Uzbek SSR, Inst of Chem, Inst of Chem Plant Substances, Inst of the Chem of Polymers), 175 copies (KL, No 11, 1960, 129)

ISMAILOV, A.; SADYKOV, A.S., akademik

Chemistry of gossypol. Uzb. khim. zhur. no.3:34-41 '59.
(MIRA 12:9)

1. Institut khimii AN UzSSR. 2. AN UzSSR (for Sadykov).
(Gossypol)

SADYKOV, A.S., akademik; ISMAILOV, A.; UZBERKOVA, D.

New method for determining gossypol in the various organs of the cotton plant. Dokl.AN Uz.SSR no.3:40-43 '59. (MIRA 12:7)

1. Institut khimii rastitel'nykh veshchestv AN UzSSR. 2. AN UzSSR (for Sadykov).
(Gossypol) (Cotton)

ISMAILOV, A. I., (USSR)

Chemical Investigation of Gossypol.

report present at the 5th Int'l.
Biochemistry Congress, Moscow, 10-16, Aug. 1961

ISMAILOV, A.I., dotsent

Phytochemical composition of and medicinal preparations from bulbs
of Siberian squill growing in Azerbaijan. Azerb. med. zhur.
no. 1:57-60 Ja '61. (MIRA 14:2)

1. Iz kafedry tekhnologii lekarstv i galenovykh preparatov (zav. -
prof. R.A. Aliyev) Azerbaydzhanskogo gosudarstvennogo meditsinskogo
instituta.

(AZERBAIJAN--SQUILL)

ISMAILOV, A.I.; GOLUBINSKAYA, G.V.; TALYBOV, G.Kh.

Irrigation erosion of soils in cotton plantations on collective farms in Shamkhor District, Azerbaijan S.S.R. Trudy Sekt. eroz. AN Azerb. SSR 1:169-181 '61. (MIRA 15:8)
(Shamkhor District--Irrigation--Erosion)

SADYKOV, A.S., akademik; ISMAILOV, A.; TURULOV, A.V.; BUZITSKOVA, Ye.P.

Cotton plant leaves as a source of carotene. Uzb.khim.zhur.
no.2:71 '61. (MIRA 14:10)

1. Institut khimii polimerov AN UzSSR. 2. Akademiya nauk UzSSR
(for Sadykov). (Carotene) (Cotton)

ALIYEV, R.K.; YUZBASHINSKAYA, F.A.; ISMAYLOV, A.I.; RAKHIMOVA, A.Kh.

Characteristics of the chemical composition and some pharmacological properties of medicinal galenic preparations derived from the leaves of quince grown in Azerbaijan. Izv. AN Azerb. SSR. Ser. biol. i med. nauk no.6:117-127 '61. (MIRA 14:8)

(~~APENHORN PENINSULA—QUINCE~~) (PHARMACOLOGY)

ISKHAKOV, N.I.; ISMAILOV, A.I.; SADYKOV, A.S.; YABUKOV, A.M.

Influence of certain factors on the oleaginousness and fatty acid
content of cottonseeds. Uzb.khim.zhur. 7 no.3:52-56 '63.

(MIRA 16:9)

1. Institut khimii polimerov AN UzSSR.
(Cottonseed oil) (Acids, Fatty)

SADYKOV, A.S.; ISAYEV, Kh.I.; ISMAILOV, A.I.

Extraction and separation of some substances of the cotton
plant. Uzb. khim. zhur. 7 no.2:53-56 '63. (MIRA 16:8)

1. Institut khimii polimerov AN UzSSR.
(Cotton) (Organic compounds)

SADYKOV, A.S., akademik; KARIMDZHANOV, A.K.; ISMAILOV, A.I.; RAKHIMKHANOV, Z.B.

Tannins in a cotton plant contaminated by verticilliose wilt. Dokl.
AN Uz. SSR 20 no.1:22-25 '63. (MIRA 16:6)

1. Institut khimii polimerov AN Uzbekskoy SSR. 2. AN Uzbekskoy SSR
(for Sadykov).

(Cotton wilt) (Tannins)

ISMAILOV, A.Kh.

Treatment of posttraumatic contractures with rhonidase. Zdrav.
Turk. 5 no.3:19-23 My-Je '61. (MIRA 14:10)

1. Iz Chardzhouskoy oblastnoy bol'nitsy (glavnyy vrach - A.Ye.
Yeldashev) i kafedry travmatologii Tsentral'nogo instituta
usovershenstvovaniya vrachey (zav. - prof. D.K.Yazykov).
(HYALURONIDASE) (CONTRACTURE)

ISMAILOV, A.Kh.

Vascular tissue permeability and changes in the peripheral blood
in injured persons. Zdrav. Turk. 5 no.6:19-22 N-D '61.

(MIRA 15:2)

1. Iz Chardzhouskoy oblastnoy bol'nitsy (glavnyy vrach - A.Ye.
Yeldashev, nauchnyy rukovoditel' - zav. kafedroy travmatologii
TSentral'nogo instituta usovershenstvovaniya vrachey prof. D.K.Yazykov).
(BLOOD--CIRCULATIONS, DISORDERS OF) (WOUNDS)

SHAMSIYEV, A.A.; ASKEROV, F.A.; ISMAILOV, A.M.

Strength of some Azerbaijan rocks under uniaxial expansion
and contraction. Azerb. neft. khoz. 39 no.12:17-18 D '60.

(MIRA 14:9)

(Azerbaijan--Rocks--Testing)

ISMAILOV, A.P.
DZHAVADOV, M.A.; ISMAILOV, A.P.; KASIMOVA, S.S.

Spaces over algebras of alternions. Dokl. AN Azerb. SSR 11 no.1:
3-8 '55. (MIRA 8:10)

1. Azerbaydzhanskiy gosudarstvennyy universitet im. S.M.Kirova.
Predstavleno deystvitel'nym chlenom Akademii nauk Azerbaydzhans-
skoy SSR I.G.Yes'manov
(Geometry, Differential--Projective)

ISMAILOV, A.R.

Air pollution by fluorine compounds in the vicinity of the Sumgait Aluminum Plant. Azerb. med. zhur. 41 no.1:61-65 Ja '64.

(MIRA 17:12)

1. Iz kafedry obshchey gigiyeny Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta imeni Narimanova.

ISMAILOV, A.S.

Growth and development of some systems and organs of Karadolkh
sheep during the postembryonic period. Dokl. AN Azerb. SSR 16 no.10:
991-994 '60. (MIRA 14:1)

(Sheep breeds)

ISMAYLOV, A. S.

Cand Biol Sci - (diss) "Biological characteristics of the post-embryonic development of karadolakh sheep." Baku, 1961. 22 pp; (Committee on Higher and Secondary Specialist Education under the Council of Ministers Azerbaydzhn SSR, Azerbaydzhn State Univ imeni S. M. Kirov, Inst of Zoology of the Academy of Sciences Azerbaydzhn SSR); 150 copies; price not given; (KL, 5-61 sup, 183)

ISMAILOV, A.Ya.

Some inequalities for polynomials of many variables. Uch. zap.
AGU. Ser. fiz.-mat. i khim. nauk no.4:37-46 '61. (MIRA 16:6)
(Polynomials) (Inequalities (Mathematics))

ISMAILOV, B.

ISMAILOV, B. -- "The Work of the School Komsomol Organizations of Tadzhikistan among the Students during the Great Fatherland War (1941-1945)." Min Education Azerbaijan SSR, Azerbaijan State Pedagogical Institute imeni V. I. Lenin, Baku-Stalinbad, 1956. (Dissertation for the Degree of Candidate of Pedagogical Sciences)

SO: Knizhnaya Letopis' No 43, October 1956, Moscow

ISMAILOV, B., inzh.

Preventing damage to brake shoes. Zhel.dor.transp. 36 no.5:89
My '55. (MIRA 12:5)

1. Nachal'nik tekhnicheskogo byuro otdeleniya dorogi, g.Baku.
(Railroads--Brakes)

ISMAILOV, B.I.

Effect of some quinazoline derivatives on transplantable tumors.
Vop. onk. 10 no.4:29-34 '64. (MIRA 17:11)

1. Iz laboratorii eksperimental'noy onkologii (sav. ~ zasluzhennyy
deyatel' nauki prof. N.V. Lazarev) Instituta onkologii AMN (dir. -
deystvitel'nyy chlen AMN SSSR prof. A.I. Serebrov). Adres avtora:
Leningrad, P-129, 2-ay Berezovaya alleya, 3, Institut onkologii AMN
SSSR.

ISMAILOV, D.

Contrast X-ray examination methods in tumors of the occipital
lobe of the brain. Zdrav. Tadzh. 10.no.1:45-47. '63. (MIRA 16:7)
(BRAIN--RADIOGRAPHY) (BRAIN--TUMORS)

ISMAILOV, D.G.

Portable acetylene apparatus for metal cutting. Put' i put.khoz.
4 no.6:23 Je '60. (MIRA 13:7)

1. Inzhener distantsii puti, stantsiya Nakhichevan', Azerbaydshan-
skoy dorogi.
(Gas welding and cutting)

POROSHIN, K.T., akademik; DAVIDYANTS, S.B.; ISMAILOV, D.I.

Condensation of some amino acids with 2-phenylcinchoninic acid.
Dokl. AN Tadjh.SSR 8 no.9:18-20 '65.

(MIRA 18:12)

1. Institut khimii AN Tadjhikskoy SSR. Submitted June 20,
1965. 2. Chlen-korrespondent AN Tadjhikskoy SSR (for Poroshin).

ISMAILOV, D. K., CAND VET SCI, "HELMINTHOFAUNA OF SHEEP
AND GOATS OF THE HIGH-ALTITUDE ^{regions of the} ~~RAYONS OF~~ CAUCASUS ^{of the} MINOR ~~IN~~
AZERBAIDZHAN SSR AND THE DYNAMICS OF THE ^{principal} ~~MOST PREDOMINANT~~
HELMINTHIAS ^{es.}" BAKU, 1961. (MIN OF AGR USSR. ALL-UNION
ORDER OF LENIN ACAD OF AGR SCI IMENI V. I. LENIN. ALL-UNION
INST OF HELMINTHOLOGY IMENI ^CAD K. I. SKRYABIN). (KL-DV,
11-61, 226).

AKHMEDOV, Z.M.; ISMAILOV, D.Kh.; MANAFOV, L.I.; PEYSAKHOV, S.I.

Hydrodynamic study of the process of accumulation of condensed water in a layer with an account of changes in gas saturation in a porous medium. *Izv. vys. ucheb. zav.; neft' i gaz* 7 no.10:45-49 '64. (MIRA 18:2)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova.

TRIVUS, N.A.; SADYKH-ZADE, E.S.; ISMAILOV, D.Kh.

Experimental investigation of the contact and differential condensation of a gas-condensate mixture. Izv. vys. ucheb. zav.; neft' i gaz 8 no.2:47-50 '65.

(MIRA 18:3)

1. Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova i Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.

SADYKH-ZADE, E.S.; ISMAILOV, D.Kh.; KARAKASHEV, V.K.

Effect of methods for condensation on the drop in reservoir pressure.
Izv. vys. ucheb. zav.; neft' i gaz. 8 no.5:43-46 '65. (MIRA 18:7)

1. Azerbaydzhanskiy institut nefti i khimii im. M.Azizbekova i Azerbaydzhanskiy nauchno-issledovatel'skiy institut po dobyche nefti.

Study of monocrystalline n-TlSe and its rectifying properties.
G. A. Akhundov, G. B. Abdulayev, I. G. Aksianov.

(Not presented.)

Electro-physical properties of monocrystalline TlSe. G. A. Akhundov,
G. B. Abdulayev, G. D. Guseynov, N. Kh. Aliyeva.

[Investigation of the electrical properties of germanium telluride.
G. B. Abdulayev, V. B. Antonov, Ya. N. Nasirov.

On studies of and some properties of monocrystalline GaTe and GaS.
G. A. Akhundov, G. B. Abdulayev, N. A. Gasanova, F. I. Ismailov.

[Investigation of some physical properties of the monocrystalline
compounds CuSbS_2 and CuSbSe_2 . G. B. Abdulayev, R. Kh. Nani, Ya. N.
Hasirov, T. G. Osmanov.

Report presented at the 3rd National Conference on Semiconductor Compounds,
Kishinev, 16-21 Sept 1963

KABULOV, D.T.; MUMINOV, M.M.; ISMAILOV, F.I.

Isotopes raise the productivity of cotton. Priroda 53 no. 11:
93 '64. (MIRA 18:1)

1. Samarkandskiy gosudarstvennyy universitet im. Alishera
Navoi.

L 56546-85 EWG(j)/EWP(j)/EWA(h)/EWT(m)/T/EWA(l)

Pc-1/Feb RM

ACCESSION NR: AP5010360

UR/0205/115/005/002/0309/0309

21
20
8

AUTHOR: Kabulov, D. T.; Muminov, M. M.; Ismailov, F. I.

TITLE: The effect of small gamma-irradiation doses on growth and development of cotton

SOURCE: Radiobiologiya, v. 5, no. 2, 1965, 309

TOPIC TAGS: cotton, seed, gamma-irradiation, irradiation effect, single radiation dose, growth stimulation, plant culture

ABSTRACT: In experiments conducted in 1959-61 seeds of 105-F cotton and hybrid No. 21 cotton were gamma-irradiated with single doses of 200 to 1400 r before sowing to determine the effects of irradiation on growth and yield. Results show that plants grown from irradiated seeds are characterized by higher plant density per hectare, increased number of bolls per plant, and a higher yield than plants grown from nonirradiated seeds. The optimal radiation dose proved to be 600 r. Irradiation with 600-800 r doses produced the most favorable germination of seeds, plant density, and yield. Orig. art. has: 1 table.

Card 1/2

L 56546-65

ACCESSION NR: AP5010360

ASSOCIATION: Samarqandskiy gosudarstvennyy universitet im. A. Navoi
(Samarqand State University)

SUBMITTED: 15 Jun 63

ENCL: 00

SUB CODES: LA

NR REF SOV: 000

OTHER: 000

716
Card 2/2

ISMAILOV, F.M.

Frequency of hemoptysis and hemorrhage in pulmonary tuberculosis patients at the high-altitude sanatorium in the Kalininsk. Zdrav. Turk. 4 no.5:29-32 S-0 '60. (MIRA 13:12)

1. Iz kafedry fakul'tetskoy terapii (zav. - dotsent Ye. A. Pletnev) Trukmenskogo gosudarstvennogo meditsinskogo instituta imeni I.V. Stalina.

(KALININSK (TURKMENSITAN)--SANATORIUMS)
(TUBERCULOSIS) (HEMORRHAGE)

ISMAILOV, F.M.

Course of pulmonary tuberculosis and results of treating it under conditions of a local sanatorium. Zdrav. Turk. 5 no.1:30-34 Ja-F '61. (MIRA 14:6)

1. Iz respublikanskogo protivotuberkuleznogo dispansera (glavvrach - F.M.Ismailov) i kafedry fakul'tetskoy terapii (zav. - dotsent Ya.A. Pletnev) Turkmenskogo gosudarstvennogo meditsinskogo instituta imeni I.V.Stalina.

(TUBERCULOSIS)

ISMAILOV, F.M.

Course of pneumopleuritis in pulmonary tuberculosis patients in the mountain climate conditions at Kalinin Sanatorium. Zdrav. Turk. 5 no.3:23-27 My-Je '61. (MIRA 14:10)

1. Iz kafedry fakul'tetskoj terapii (sav. - dotsent Ye.A.Pletnev) Turkmenskogo gosudarstvennogo meditsinskogo instituta imeni Stalina. (KALININ--TUBERCULOSIS--HOSPITALS AND SANATORIUMS) (PLEURA--DISEASES)

TAUNITE, F.I.; ISKANDEROVA, I.I.; OVEZOV, S.O.; ISMAILOV, F.M.

Some data on the characteristics of tuberculous disease
in the population of Kaakhka District. Zdrav. Turk. 6
no.3:8-11 My-Je '62. (MIRA 15:6)

1. Iz kafedry fakul'tetskoy terapii (zav. - dotsent Ye.A.
Fletnev) Turkmenskogo gosudarstvennogo meditsinskogo instituta
i Respublikanskogo protivotuberkuleznogo dispansera (glavnyy
vrach F.M. Ismailov).

(KAAKHKA DISTRICT--TUBERCULOSIS)

ISMAILOV, F.M.

Initial experience with lung resection in tuberculosis. Zdrav.
Turk. 6 no.3:11-14 My-Je '62. (MIRA 15:6)

1. Iz kafedr propedeuticheskoy khirurgii (zav. - prof.
N.M. Tachmuradov), fakul'tetskoy terapii (zav. - dotsent
Ye.A. Pletnev) Turkmenskogo gosudarstvennogo meditsinskogo
instituta i Turkmenskogo respublikanskogo protivotuberkuleznogo
dispansera (glavnyy vrach F.M. Ismailov).
(TUBERCULOSIS) (LUNGS—SURGERY)

ISMAILOV, F.M.

Results of a pneumothorax treatment of pulmonary tuberculosis
in a sanitorium under maintain climatic conditions. Zdrav.
Turk. 7 no.5:3-6 (41) May '63. (MIRA 16:8)

1. Iz kafedry fakul'tetskoy terapii (zav. - dotsent Y.A.Fletnev)
Turkmenskogo gosudarstvennogo meditsinskogo instituta.
(TURMENISTAN—TUBERCULOSIS) (PNEUMOTHORAX)

ISMAILOV, F.M.

Effectiveness of surgical treatment in pulmonary tuberculosis.
Zdrav. Turk. 8 no.1:8-11 Ja '64. (MIRA 17:5)

1. Iz legochno-khirurgicheskogo otdeleniya (zaveduyushchiy F.M. Ismailov) Turkmenskogo nauchno-issledovatel'skogo instituta tuberkuleza (direktor A.A. Akhundov, nauchnyy rukovoditel' - dotsent Ye.A. Pletnev).

L 23297-66 FBD/EWT(l)/EWT(m)/EEG(k)-2/T/EWP(l)/EWP(k)/EW(l) JIP(c)
 ACC NR: AP6012506, WG/JD SOURCE CODE: UR/0181/66/008/004/1283/1285

AUTHOR: Yeliseyev, P. G.; Ismailov, I.; Nashel'skiy, A. Ya.; Ostrovskaya, V. Z. 47

ORG: Physics Institute im. P. N. Lebedev AN SSSR, Moscow. (Fizicheskiy Institut AN SSSR) B

TITLE: Coherent radiation of an indium arsenide-phosphide p-n diode

SOURCE: Fizika tverdogo tela, v. 8, no. 4, 1966, 1283-1285

TOPIC TAGS: coherent radiation pn diode, indium arsenide, indium phosphide, solid state laser, infrared laser

ABSTRACT: InPAs crystals were obtained by two-temperature step-by-step synthesis (A. Ya. Nashel'skiy, Byull. izobret., no. 12,40, 1964) in conjunction with oriented crystallization. Subsequent treatment of synthesized specimens (P = 94%, As = 6%) containing large (1 cm^3) seeds was similar to that used in the preparation of GaAs diode lasers. The diffusion of the acceptor impurity (Zn) from ZnAs₂ was carried out in a sealed tube at 750C during a period of 30 min. Fabry-Perot type resonators were used with distances between mirrors of 0.5 and 0.35 mm. Coherent radiation from these specimens was at 0.942μ and the threshold current densities at 77K were from 2.5 to $6.0 \times 10^3 \text{ amp}\cdot\text{cm}^{-2}$. Line narrowing was observed at threshold currents ($\sim 5300 \text{ amp}\cdot\text{cm}^{-2}$) and at 1.5-2 times their value produced spectral widths of

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L 23297-66

ACC NR: AP6012506

-12-15 Å. At superthreshold currents, equidistant (2.6 Å) spiking was observed in the spectrum of stimulated emission from a 35-mm resonator. Orig. art. has: 2 figures. [YK]

SUB CODE: 20/ SUBM DATE: 05Nov65/ ORIG REF: 002/ OTH REF: 005/ AID PRESS: 4236

Cord 2/2

L 44600-66 EWT(l)/EWT(m)/EEC(k)-2/T/EWP(k)/EWP(t)/ETI LJP(c) WG/JD
ACC NR: AP6030959 SOURCE CODE: UR/01B1/66/008/009/2610/2615

AUTHOR: Basov, N. G.; Yeliseyev, P. G.; Ismailov, I.; Yakobson, S. V.; Nashel'skiy, A. Ya.; Pinsker, I. Z.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut AN SSSR)

TITLE: Certain properties of ^{v1} InP ^{v1} lasers ₂₅

SOURCE: Fizika tverdogo tela, v. 8, no. 9, 1966, 2610-2615

TOPIC TAGS: solid state laser, semiconductor laser, indium phosphide laser, infrared laser, *INDIUM COMPOUND, PHOSPHIDE*

ABSTRACT: Stimulated emission of InP diodes in the 9060—9080 Å region was compared with that of their GaAs counterparts (see Table 1). InP bars were prepared by the directed crystallization method in the form of large-size polycrystals grained in the direction of the bar axis. The bars were tellurium-doped with electron concentrations of $5 \cdot 10^{17} \text{ cm}^{-3}$. The diffusion of zinc from the gas phase into polished plates each containing 2—3 seeds took place at 750C over a 30-min period. The depth of the p-n junction was 35 μ. The electrical contacts were made of gold which was sputtered on plates at 400C. The bar ends were polished and the sides were roughly worked. The GaAs diodes were prepared in a similar manner with the following exceptions: diffusion of zinc into GaAs lasted 4 hr at 850C under excess As pressure, and the resonator

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ACC NR: AP6030959

Table. 1. Basic characteristics of InP and GaAs lasers

	InP	GaAs
Electron concentration in the n-region, cm^{-3}	$5 \cdot 10^{17}$	$5 \cdot 10^{17}$
Electron mobility in the n-region, $\text{cm}^2/\text{v} \cdot \text{sec}$	2000	3200
Concentration of zinc in the gaseous phase during diffusion, cm^{-3}	$3 \cdot 10^{18}$	$7 \cdot 10^{18}$
Diffusion temperature, $^{\circ}\text{C}$	750	850
Diffusion time, hours	0.5	4
Length of Fabry-Perot resonator, mm	0.8	0.9
Wavelength of stimulated emission, \AA	9070	8480
Threshold current density, amp/cm^2	7200	940
Threshold current density after one surface is silvered, amp/cm^2	4700	630
Loss factor α , cm^{-1}	8	8
Gain divided by current density, β , $\text{cm} \cdot \text{amp}^{-1}$	$3.7 \cdot 10^{-3}$	$2.5 \cdot 10^{-2}$

surfaces and diffusion plane were produced by cleavage along the contact plane. The diffusion depth in both cases was almost identical. As regards the width of directivity, InP lasers ($5-7^{\circ}$) were shown to be superior to GaAs lasers ($14-19^{\circ}$) by a factor of 3 or 4. InP laser diodes were characterized by a low loss factor ($\sim 7 \text{ cm}^{-1}$)

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ACC NR: AP6030959

and a gain relatively lower than that of GaAs, expressed in a linear approximation as $k = 3.4 \times 10^{-3} j \text{ cm}^{-1}$, where j (amp/cm²) is the current density. The latter can be due to a lower (than GaAs) quantum yield and to a thick active layer (8—10 μ). The differential efficiencies of the InP laser made it possible to deliver pulsed power of 7 watts at 75 amp at the liquid N temperature. Orig. art. has: 2 tables, 2 figures, and 3 formulas. [YK]

SUB CODE: 20/ SUBM DATE: 17Jan66/ OTH REF: 012/ ATD PRESS: 5078

Card 3/3 *lgm*

ACC NR: AP6036992

(A,N)

SOURCE CODE: UR/0181/66/008/011/3383/3386

AUTHOR: Yeliseyev, P. G.; Ismailov, I.; Ormont, A. B.; Yunovich, A. E.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet); Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut)

TITLE: Spontaneous radiative recombination in InP p-n junctions at low currents

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3383-3386

TOPIC TAGS: indium compound, phosphide, pn junction, radiative recombination, emission spectrum, volt ampere characteristic, tunnel effect, line shift, temperature dependence

ABSTRACT: The authors investigated the emission spectra and the volt-ampere characteristics of diffusion p-n junctions in InP at 9, 77, and 300K, at current densities up to 10^2 a/cm². Data are presented on the emission of strongly doped InP p-n junctions at a weak injection level, and the presence of several emission bands as demonstrated, including one which is undoubtedly connected with the "diagonal" tunneling of electrons through the p-n junction, similar to that occurring in GaAs diodes. The samples were made from large-block polycrystals of InP, doped with tellurium, and the p-n junctions were produced by diffusion of zinc at 750C. Two groups of samples were prepared, with slightly different volt-ampere characteristics. The emission spectra exhibited three bands, connected with the different transitions which are tentatively identified. The widths of the emission lines are estimated and

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ACC NR: AP6036992

the temperature dependence of the line shift is given. One of the bands is connected with "diagonal" tunneling occurring at small forward bias on the junction (from 0.9 to 1.3 volts at 77K). With increasing voltage (1.35 - 1.40), a strong emission band appears with quantum energy much smaller than the width of the forbidden band, which predominates at high excitation levels and depends little on the current. In addition at 1.2 - 1.4 v a weak band appears, due to radiative transitions to a deep level, with a quantum energy near 1.0 ev. All these processes are similar to those described in the literature for GaAs diodes. The authors thank A. Ya. Nashel'skiy and S. V. Yakobson for supplying the InP crystals. Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 19May66/ ORIG REF: 003/ OTH REF: 005

Card 2/2

ACC NR: AP7001323

SOURCE CODE: UR/0057/66/036/012/2213/2215

AUTHOR: Yeliseyev, P. G.; Ismailov, I.; Krasil'nikov, A. I.; Man'ko, M. A.; Strakhov, V. P.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskii institut AN SSSR)

TITLE: Temperature dependence of the threshold current of injection-type lasers and their continuous emission under liquid nitrogen cooling

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 12, 1966, 2213-2215

TOPIC TAGS: laser, injection laser, laser threshold current, laser emission point, laser emission threshold, laser diode

ABSTRACT: The temperature dependence of the threshold current in the 77—200K range was investigated on diodes prepared by vapor-phase and liquid-state epitaxy methods. The vapor-phase specimens were prepared in the conventional way; the epitaxial diodes were prepared by the liquid-phase epitaxy method (as described by Nelson in RCA Review, 24, 1963, 603) from a solution of gallium arsenide in gallium at 920C. The substrates were gallium arsenide p-type plates doped with zinc at a concentration of about $7 \times 10^{19} \text{ cm}^{-3}$. Graphs of threshold current vs. temperature for two epitaxial diodes show a linear dependence (gradients of 1.6 and 1.3% per degree). For vapor-phase specimens, the gradient is 3.9% at 77K; at higher temperatures the gradient declines slowly. The threshold current densities at 77K for vapor phase diodes lie

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ACC NR: AP7001323

within the 800—2000 amp/cm² range, and for epitaxial specimens, between 1600—8000 amp/cm². A formula is given for the conditions of generation as a function of threshold current, voltage on the junction, thermal resistance of the diode, and diode cross section. The formula shows that, at the nitrogen temperature, the threshold current density should not exceed 5700—5800 amp/cm² for epitaxial diodes and 1900 amp/cm² for vapor-phase diodes. Continuous emission was obtained at 1200—1600 amp/cm² in a number of diodes, but in some the threshold was not reached because of overheating. This result suggests that the actual thermal resistance is 3 to 4 times higher than the calculated value. The difference is attributed to insufficient contact between the diode and the cooling agent. Orig. art. has: 1 figure and 2 formulas. [FP]

SUB CODE: 20/ SUBM DATE: 18Jul66/ ORIG REF: 002/ OTH REF: 012/ ATD PRESS: 5110

Card 2/2

ISMAILOV, I., aspirant

Effect of substituting hydrolysis yeast for fish meal in rations
for pregnant sows on the embryonic development of baby pigs.
Zhivotnovodstvo 23 no.6:32-33 Je '61. (MIRA 16:2)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut
zhivotnovodstva.
(Sows---Feeding and feeds) (Veterinary embryology)
(Yeast as feed)

ISMAILOV I.D.

ISMAYLOV, I.D.

~~Thermal stability of ground electrodes in stationary conditions [in Azerbaijani with summary in Russian]. Izv.AN Azerb.SSR no.11:3-10 '56.~~

(MLBA 10:2)

(Electric currents--Grounding)

ISMAILOV, I. D.

ISMAILOV, I. D. -- "The Use of Earth as a Phase Conductor in Field Networks." All-Union Sci Res Inst of the Electrification of Agriculture (VIESKh). Moscow, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

(ИСМАИЛОВ

И.Д.

No 1

SOP Knizhnaya Letopis', 1956, pp 102-122, 124

ISMAILOV, I.D.

Operation of a three-phase asynchronous motor on capacitors in normal and starting operating conditions [in Azerbaijani with summary in Russian]. Izv.AN Azerb.SSR.Ser.fiz.-mat.i tekhn.nauk no.5:113-117 '60. (MIRA 14:4)

(Electric motors, Induction)
(Electric capacitors)

USSR / Forestry: Biology and Typology of the Forest.

K-1

Abs Jour: Ref Zhur-Biol., No 13, 1956, 58361

Author : Ismailov, I.I.

Inst : AS TadzhSSR, Department of Natural Sciences

Title : The Peculiarities of the Growth of the Juniper,
(Juniperus Turkestanica) in Relation to its Spread

Orig Pub: Izv. otd. yestestv. nauk AN TadzhSSR, 1957, No 22,
53-64

Abstract: The Turkestan Juniper grows more rapidly on well irrigated northern slopes with a melkozem (fine) soil and when cultivation is dense. On southern dry slopes, juniper groves are very sparsely planted and grow slowly. The increase in absolute height also retards growth. It is indicated that the

Card 1/2

ISMAILOV, I.I.; TURSUNKHODZHAYMVA, M.S.; MUKMINOVA, Sh.G.

Influence of campolon therapy on the level of some vitamins in
the body in hepatitis. Izv.AN Uz.SSR.Ser.med. no.3:10-14 '59.
(MIRA 12:8)

1. Tashkentskiy gosudarstvennyy meditsinskiy institut. 2. Chlen-
korrespondent AN UzSSR (for Ismailov).
(CAMPOLON) (LIVER--DISEASES) (VITAMINS)

ZUL'FUGARLY, D.I.; ISMAILOV, I.M.

Analysis of coke elements in a depleted aluminosilicate catalyser.
Dokl. AN Azerb. SSR 11 no.2:97-102 '55. (MIRA 8:10)

1. Azerbaydzhanskiy nauchno-issledovatel'skiy institut nefte-
pererabatyvayushchey promyshlennosti im. V.V.Kuybysheva. Pred-
stavleno deyствitel'nyy chlenom Akademii nauk Azerbaydzhanskoy
SSR M.F.Nagiyevyn.

(Cracking process)

ISMAILOV, I.M., inzh.

Ways of reducing losses of gasoline in oil extraction
plants of Uzbekistan. Masl.-shir.prom. 25 no.10:43-45
'59. (MIRA 13:2)

1. Institut khimii rastitel'nykh veshchestv i khlopka AN
Uzbekskoy SSR.
(Uzbekistan--Oil industries)

ISMAILOV, I.M., insh.; TADZHIBAYEV, G.T., insh.

Distillation of cotton micella by the spray method. Masl.-shir,
prom. 26 no.5:40-42 My '60. (MIRA 13:12)

1. Institut rastitel'nykh veshchestv AN UzSSR (for Ismailov).
2. Uch-Kurganskiy masloektraksiionnyy zavod (for Tadzhibayev).
(Uch-Kurgan—Cottonseed oil)

ISMAILOV, I.M., inzh.; GAVRILENKO, I.V., kand.tekhn.nauk; Primalni uchastiye:
KUTYAVIN, S.M.; ORESHKIN, D.K.; TADZHIBAYEV, G.T.; AKHUNIZHANOV, A.I.;
TONKIKH, P.I.; PANCHENKO, A.I.; FEL'DSHER, M.G.; VORCHINA, L.D.

Lowering the solvent content in seed meal before treatment in evaporators. Masl.-zhir.prom. 26 no.10:7-13 O '60. (MIRA 13:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut shirov (for Ismailov, Gavrilenko). 2. Uch-Kurganskiy masloekstraktsionnyy zavod (for Kutyaev, Oreshkin, Tadzhibayev). 3. Sredneaziatskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta shirov (for Panchenko, Fel'dsher, Voronina).
(Uch-Kurgan--Oil industries--Equipment and supplies)

ISMAILOV, I. M.

Cand Tec Sci, Diss -- "Investigation of the process of preliminary removal of a solvent from grist before its thermal processing". Tashkent, 1961. 15 pp, 22 cm (Min of Higher and Inter Spec Educ UzSSR. Tashkent Polytec Inst), 200 copies, Not for sale (KL, No 9, 1961, p 182, No 24341). [61-51115]

89127

S/065/61/000/003/003/004
E194/E284

11.12/0

AUTHOR:

Ismailov, I. M.

TITLE:

A Procedure for Determining the Filterability of Fuel Grade T-1

PERIODICAL:

Khimiya i tekhnologiya topliv i masel, 1961, No. 3, pp. 63-65

TEXT:

Cases of fuel filter blocking have occurred in aircraft using grade T-1 fuel. It was suggested that these blockages were due to the presence of naphthenic soaps in this fuel. To check this the filterability of the fuel was determined. Under refinery conditions filterability of the fuel was assessed by a method designated TY 573-55 (TU 573-55) which consists in pumping forty litres of fuel through a model aircraft filter with a pressure on the filter of 0.3 kg/cm² and a final rate of filtration of 0.07 litres/min. The filter was made of felt and had a filtering surface of 1 cm². The method has been in use since 1954 and grade T-1 fuel has been found to filter satisfactorily, and in the great majority of cases the final filtration rate is over 0.07 litres/min. Lower values are obtained only if

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S/065/61/000/003/003/004
E194/E284

A Procedure for Determining the Filterability of Fuel Grade T-1
the final purification of the fuel is inadequate. Since the filterability test has been introduced customer complaints have ceased. In order to check the quality of fuel at the place of application a small instrument and laboratory procedure have been developed to determine the filterability of the fuel, the main test conditions remain unchanged. In order to determine the minimum amount of fuel necessary to obtain reliable results tests were made with various grades of filter and amounts of fuel. It was found that filterability of the fuel could be reliably assessed by filtering a quantity of two litres and this amount was used in developing the laboratory apparatus. The equipment consists of a two-litre vessel to which a pressure of 0.3 kg/cm² can be applied with appropriate control valves, pressure gauge and air filter. The equipment is made either of steel grade EYa-1T or of bronze and aluminium. To make a test the instrument without filter is washed with the test fuel, the filter element is installed and 2.2 litres of fuel are placed in the container and subjected to a pressure of 0.3 kg/cm². After 200 ml of fuel have

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89127

S/065/61/000/003/003/004
E194/E284

A Procedure for Determining the Filterability of Fuel Grade T-1 passed through the filter the initial rate is determined and then filtration rates are determined after 1 litre and 2 litres have passed. Experience shows that the fuel is satisfactory if the filtration rate is not less than 0.1 litres/min after 2 litres of fuel have passed. If the fuel is contaminated the filtration rate is much reduced. A typical initial rate of filtration is 0.7 litres per minute. The suitability of fuel is determined on site by alkaline reaction of aqueous extract. In the tests all fuels of poor filterability had aqueous extract of neutral reaction showing that no naphthenic soaps were present in the fuel. It is concluded that filter blocking is mainly due to corrosion products and that the naphthenic soaps are only adsorbed on the filter without blocking it. There are 2 figures and 3 tables.

ASSOCIATION: INKhP AN AzSSR
(INKhP AS AzSSR)

Card 3/3

GAVRILENKO, I.V., kand.tekhn.nauk; ISMAILOV, I.M., inzh.

Lowering the solvent content in petal-shaped oil-cakes. Masl.-
zhir.prom. 27 no.3:14-21 Mr '61. (MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhirov.
(Cottonseed)

ISMAILOV, I.M., kand. tekhn. nauk; MAKHMUDOV, A.U., inzh.; KLEPIKOV, V.G., inzh.;
Prinimali uchastiye: GORYUNOVA, N.P.; VORONINA, L.D.; BARTOSH, P.K.;
SOLDATKIN, P.S.; KORNEYCHUK, G.P.; KHAMIDOV, N.Kh.; SHUL'ZHENKO, I.P.

Method of grist conditioning according to moisture. Masl.-zhir.prom.
28 no.11:37-39 N '62. (MIRA 15:12)

1. Sredneaziatskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta zhirov (for Ismailov, Goryunova, Voronina, Bartosh). 2.
Kattakurganskiy maslozhirovoy kombinat (for Makhmudov, Soldatkin,
Korneychuk, Khamidov, Shul'zhenko).
(Oils and fats)

GOVOR, V.M., inzh.; ISMAILOV, I.M., kand.tekhn.nauk; YARMUKHAMEDOV, U.Z., inzh.;
SOSNOVSKAYA, B.Ya., inzh.; KRIVORUCHKO, V.N., inzh.

Cooling of cottonseed oil cake prior to storage. Masl.-zhir.prom. 29 no.2:
40-41 F '63. (MIRA 16:4)

1. Upravleniye pishchevoy promyshlennosti Soveta narodnogo khozyaystva
Uzbekskoy SSR (for Govor). 2. Sredneaziatskiy filial Vsesoyuznogo
nauchno-issledovatel'skogo instituta zhirov (for Ismailov, Yarmukhamedov,
Sosnovskaya). 3. Yangiyul'skiy masloshirovoy kombinat (for
Krivoruchko).

(Oil cake—Storage)

ISMAILOV, I.M., kand. tekhn. nauk; TADZHIBAYEV, G.T., inzh.;
ROZENSHTAYN, G.V., inzh.

Experience in reducing oil losses in hull wastes. Masl.-shir.
prom. 29 no.3:31-32 Nr '63. (MIRA 16:4)

1. Sredneaziatskiy filial Vsesoyuznogo nauchno-issledovatel'-
skogo instituta shirov (for Ismailov). 2. Kokundskiy maslo-
shirovoy kombinat (for Tadshibayev, Rozenshteyn).
(Oils and fats)

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