L 1647-66   EWT(d)/EWP(h)/EWP(1)

(A)

ACCESSION NR: AP5021637   UR/0286/65/000/013/0123/0123

AUTHORS: Nasinin, N. A.; Gukhman, L. M.

TITLE: Balanced vibration conveyer. Class 81, No. 172676

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 123

TOPIC TAGS: conveyer, transportation equipment, material handling

ABSTRACT: This Author Certificate presents a balanced vibration conveyer with
working units in the form of two parallel pipes positioned one above the other. The
pipes are interconnected by a combined elastic and support system which includes
elastic elements operating in combination with connecting rods and rubber-metal
joints. To insure compactness and to increase the lifetime of the combined system,
torsion bars are used as elastic elements. The torsion bars are attached to the
active units rigidly at the midpoint with split clamps and hinged at the ends with
the rubber-metal joints (see Fig. 1 on the Enclosure). The torsion bars are rigidly
interconnected by the connecting rods which are coupled with an axle mounted with
rubber-metal joints to the conveyer support. Orig. art. has: 1 diagram.

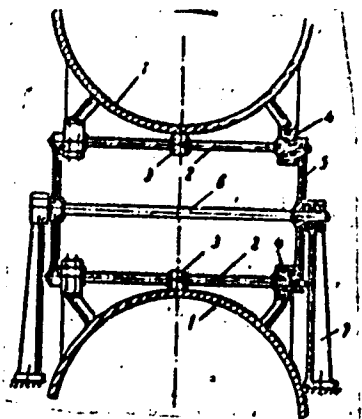ASSOCIATION: none

Card 1/3

L 1647-66
ACCESSION NR: AP5021637

Fig. 1. 1- tubes; 2- torsion bars; 3- split clamps;
4- rubber-metal joints; 5- connecting rods; 6- axle;
7- conveyer support

Card 3/3

PESCHANSKIY, I.S.; SHVAYSHTEYN, Z...; KAGAN, G.L.; NAZINTSEV, Yu.L.

Mechanical properties of consolidated ice. Probl. Arkt. i Antarkt.
no.16:45-53 '6...   (MIRA 17:6)

NAZINTSEV, Yu.L.

Experimental determination of the capacity and thermal conductivity of sea ice. Probl.Arkt.' Antarkt. no.1: 65-71 '59.   (MIRA 13:7)
    (Sea ice--Thermal properties)

NAZINTSEV, Iu. L.; ALEKSEYEV, Yu.K.

Galvanic ice gauge. Metero i gidrol. no.4:45-47 Ap '61.
(MIRA 14:3)

(Ice—Measurement)

NAZINTSEV, Yu.L.

Heat transmission through the ice cover in the central Arctic.
Probl. Arkt. i Antarkt.   no.8:37-43 '61.   (MIRA 15:3)
          (Arctic regions--Ice--Thermal properties)

NAZINTSEV, Yu.L.

Some results of observations of the plastic properties of sea ice.
Trudy AANII   256:47-60   '61.   (MIRA 15:3)
(Sea ice--Testing)

MAZINTSEV, Yu.L.

Role of heat processes in the melting of ice and the formation of
the relief of old fields in the central Arctic. Probl. Arkt. 1
Antarkt. n .12:66-75 '63.   (MIRA 16:7)
                              (Arctic regions--Ice)

NAZINTSEV, Yu.L.

Some data for calculating the thermal properties of sea ice.
Trudy AANII 267:31-47 '64   (MIRA 18:1)

Heat balance of the surface of an ice cover of many years in
the central Arctic. Ibid.:110-126

HAYBURTTSYAN, A.A., prof.; AK... ., V.A.; KAZARYAN, G.A., kand. med. nauk.
ARUTYUNYAN, ..; NAL.NYAN, S.A.; ARUTYUNYAN, V...

Radioactive iodine (I^{131}) used in determining the hormonal activity
of the thyroid gland in rats following castration. Vop. radiobiol.
[An Arm. ...] ... 21-28 ... .   (MIRA 17:6)

(2.

NAZIPOV, R.N.

Automation of petroleum-trap and seeerage pumping stations.
Transp. i khran. nefti no. 3:28-29 '63.   (MIRA 17:7)

1. Subkhankulovskoye rayonnoye neftepromyslovoye upravleniye.

JAZIROV, G.

First and second boundary value problem for an elliptic
equation. Dokl. AN Tadzh. SSR 8 no.9:2-1   1965.   (MIRA 18:12)

1. Fiziko-tekhnicheskiy institut AN imeni S. U. Umarova A
Tadzhikskoy SSR. Submitted March 18, 1965.

NAZIROV, K.B.

Multiple cornu cutaneum. Vest.khir. 77 no.6:134-135 Je '56.
(MLRA 9:8)

1. Iz Bakinskoy respublikanskoy bol'nitsy. Baku, ul. Shirshova, d.10.
(SKIN, diseases,
cornu cutaneum, multiple (Rus))

L 47130-66   EWT(1)/EWT(m)/EWP(j)/EWP(k)   IJP(c)   WW/GG/EM
ACC NR: AR6013653   SOURCE CODE: UR/0058/65/000/010/E007/E007

AUTHOR: Nazirov, I.

REF SOURCE: Uch. zap. Mosk. obl. ped. in-ta, v. 147, 1964, 99-105

TITLE: The study of pure and mixed liquids by acoustical methods

SOURCE: Ref. zh. Fizika, Abs. 10E44

TOPIC TAGS: absorption coefficient, relaxation process, ultrasonic wave propagation

TRANSLATION: A method and results of measuring propagation velocity c and absorption coefficient a of ultrasonic waves in a binary solution of acetic acid and ethanol, and in a tertiary solution: acetic acid-ethanol-ethylacetate are described. The measurements were conducted for different temperatures, compositions and frequencies. It is known that acetic acid and ethanol react to form ethylacetate and H_2O; however, this is a very slow reaction requiring times greater than the period of vibrations. The results of measuring c and a in the binary solution are presented as a function of time; (from 1 hr to 7 days after preparation of the solution). In order to evaluate the nature of the relaxation mechanism, the dispersion of c and a were measured in tertiary solutions with acetic acid concentrations of 90 and 82%, respectively. On the basis of these results one may conclude that the relaxation mechanism in the above solutions is the same as in pure acetic acid. N. Kuznetsov.

SUB CODE: 20,07/   ORIG DATE: none
                                              UDC: 532.12
Card 1/1 afs

L. 2/0/5-7   EM(   )/ / ,..(1)/E   ,   ' / ,   (o)   AL.
ACC NR: AR0023298   SOURCE CODE: UR/0058/66/000/003/H070/H070

AUTHOR: Nazirov, I.

TITLE: Pulsed ultrasonic apparatus for the measurement of absorption and the velocity of ultrasonic waves in liquids λм

SOURCE: Ref zh. Fizika, Abs. 3Zh465

REF SOURCE: Tr. 1-y Mezhvuz. nauchn. konferentsii po primeneniyu molekul. akust. к issled. veshchestva i v nar. kh-ve. Tashkent, 1964, 193-201

TOPIC TAGS: ultrasound absorption, ultrasonic velocity, ultrasonic equipment, ultrasonic wave, interferometer/IZV-1 range finder, GMV pulse generator, MGI-1 square wave generator, GSS-6 generator, GSS-7 generator

ABSTRACT: Apparatus for the measurement of absorption and the velocity of ultrasound in liquids is described; the apparatus is made up essentially of standard factory instruments. The radiator and receiver for the ultrasound are two piezoelectric X-cut quartz plates operating at odd harmonics or excited far from resonance. The converters and the fused-quartz delay lines are moved by means of an IZV-1 range finder. To measure the absorption of ultrasound in liquids situated in a thermostat between the ends of the delay lines, the transmitting quartz is excited by radio voltage pulses from a GMV generator which is externally pulse-modulated by an MGI-1 video square-wave pulse generator. Excitation of the transmitter quartz by a small voltage from the GMV generator prevents possible distortion of the measurement results by nonlinear effects.

Card 1/2

ACC NR: AP6023293   /

For comparison of the amplitudes of signals received at different liquid-layer thick-
ness, a standard radio pulse from a GSS-7 generator, triggered by the GI-1 simultane-
ously with the triggering of the oscilloscope and excitation of the transmitter quartz,
is applied to the input of the intermediate frequency amplifier. To measure the
velocity of the ultrasound, the radiating quartz plate is continuously excited by a
GSS-6 generator. The entire apparatus operates in this case as an ordinary interfero-
meter with two quartz crystals. V. Shutilov. [Translation of abstract]

SUB CODE: 20

Card 2/2

L 10836-67   EWT(m)

ACC NR: AR6033803 /N/ SOURCE CODE: UR/0124/66/000/007/B024/B024   2 ·/

AUTHOR: Nazirov, I.

TITLE: Investigation of the properties of liquids and their mixtures by acoustical methods

SOURCE: Ref. zh. Mekhanika, Abs. 7B190

REF SOURCE: Uch. zap. Mosk. obl. ped. in-ta, v. 147, 1964, 99-105

TOPIC TAGS: acoustic measurement, propagation rate, absorption coefficient, liquid property

ABSTRACT: The results and measuring procedure are given for the propagation rate and the absorption coefficient α of ultrasonic waves at different frequencies in a binary mixture of acetic acid and ethanol and in a ternary mixture of acetic acid, ethanol, and ethylacetate. The measurements were carried out at various temperatures, concentrations of components and ultrasonic frequencies. N. Kuznetsov. [Translation of abstract]

SUB CODE: 20/

Card 1/1 bp
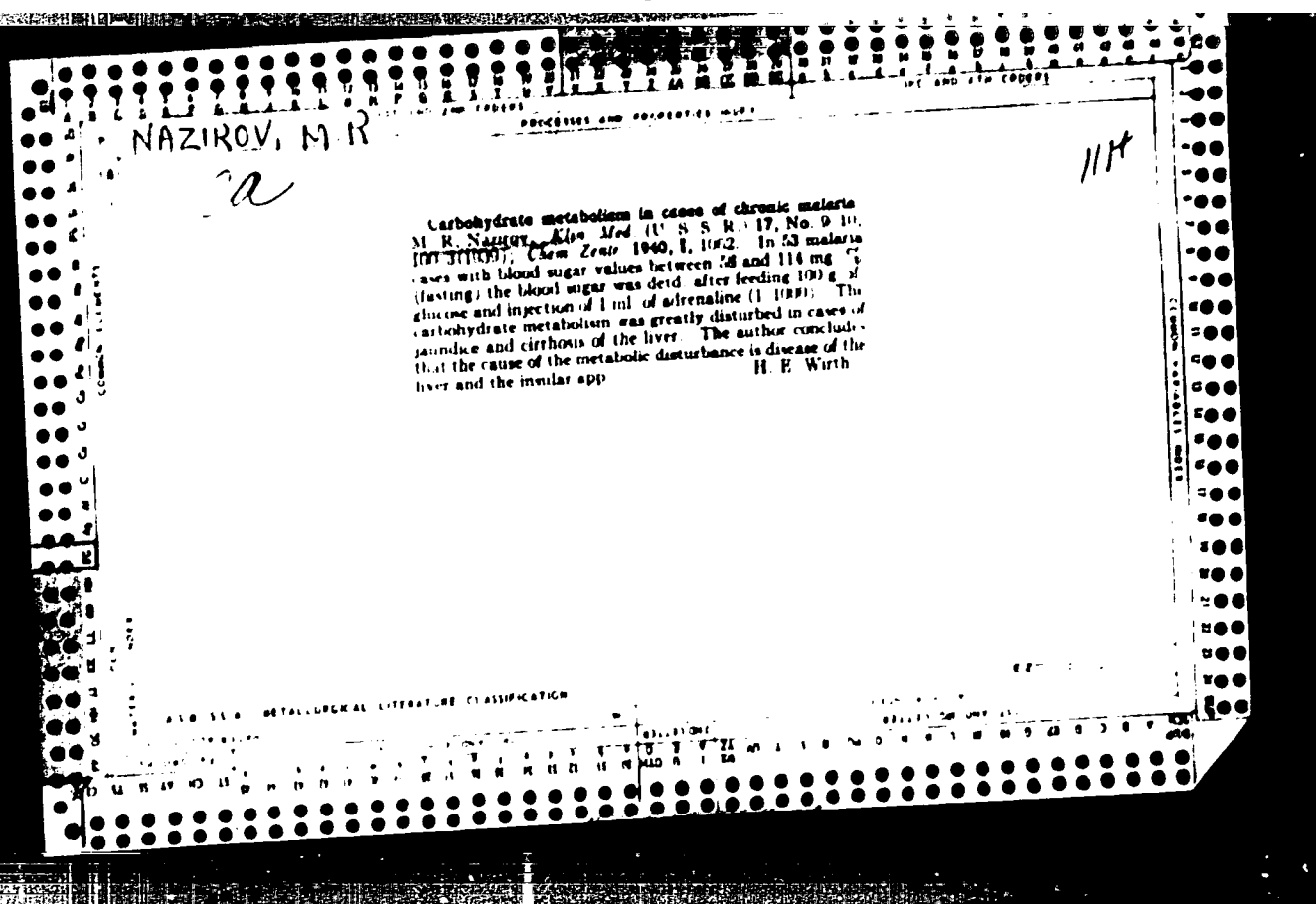
NAZIROV, M R

Carbohydrate metabolism in cases of chronic malaria.
M. R. Nazirov, Klin. Med. (U S S R) 17, No. 9 111,
[in Russian]; Chem. Zentr. 1940, I, 1062. In 53 malaria
cases with blood sugar values between 78 and 114 mg
(fasting) the blood sugar was detd. after feeding 100 g of
glucose and injection of 1 ml of adrenaline (1 1000). The
carbohydrate metabolism was greatly disturbed in cases of
jaundice and cirrhosis of the liver. The author concludes
that the cause of the metabolic disturbance is disease of the
liver and the insular app   H. E. Wirth

METALLURGICAL LITERATURE CLASSIFICATION

NAZIROV, M.R.; GLASHKIHA, T.P.; TUAYEV, S.M.

Treatment of taeniarhynchosis with atabrin. Med. paraz. i paraz. bol.
no.4:305-306 O-D '54.   (MLRA 8:2)

1. Iz kafedry malyarii i meditsinskoy parazitologii Instituta
usovershenstvovaniya vrachey i Instituta malyarii i meditsinskoy
parazitologii Ministerstva zdravookhraneniya Azerbaydzhanskoy SSR.
          (QUINACRINE, therapeutic use,
             tapeworm infect.)
          (TAPEWORM INFECTION, therapy,
             quinacrine)

NAZIROV, M.R.; BABAYEV, D.O.

Rectoromanoscopy of the mucosa in intestinal diseases. Zhur.
mikrobiol. epid. i immun. no.6:67 Je '54.   (MLRA 7:7)

1. Iz Instituta malyarii i meditsinskoy parazitologii Azarbaydzhan-
skoy SSR.
          (MUCOUS MEMBRANE)   (DYSENTERY)

NAZIROV, M.R., professor; GLASHKINA, T.P.; TUAYEV, S.M.

Acrichine and oxygen therapy in treatment of patients with helminth infections. Sov.med. no.3:70-71 Mr '55.   (MLRA 8:5)

1. Iz kafedry malyarii i meditsinskoy parazitologii Instituta uso-vershenstvovaniya vrachey i Instituta malyarii i meditsinskoy para-zitologii (dir. -prof. M.R.Nazirov) Ministerstva zdravookhraneniya Azerbaydzhanskoy SSR.
          (HELMINTH INFECTIONS, ther.,
             oxygen & quinacrine)
          (OXYGEN, ther. use,
             helminth infect., with quinacrine)
          (QUINACRINE, ther. use,
             helminth infect., with oxygen)

NAZIROV, M.R.

[Visceral leishmaniasis; Kála-azár] Visseral-leyshmanioz(gara azar). Baky, Azerbaychan SSR   Elmler akademiiasy neshriiiaty, 1956. 55 p. illus.   (MIRA 11:11)
(KÁLA-AZAR)

•

HAZIROV, M.R., prof.

On the problem of the pathogenesis of brucellosis. Azerb.med.
zhur. no.5:104-106 My '58   (MIRA 11:6)

1. Zaveduyushchiy kafedroy malyarii Azerbaydzhanskogo gosudar-
stvennogo instituta usovershenstvovaniya vrachey.
          (BRUCELLOSIS)

NAZIROV, M.P.; ABRAKHANOVA, B.N.

Hyaluronidase in patients suffering from brucellosis; author's abstract.
Zhur.mikrobiol.epid. i immun. 29 no.2:106-107 F '58.

(MIRA 11:4)

1. Iz kafedry malyarii i meditsinskoy parazitologii Azerbaydzhanskogo
instituta usovershenstvovaniya vrachey.
(HYALURONIDASE,
metab. in brucellosis (Rus)
(BRUCELLOSIS, metabolism,
hyaluronidase (Rus)

NAZIROV, M.R., prof.

Liver function in brucellosis. Azerb.med.zhur. no.1:60-64 Ja '59.
(MIRA 12:4)
1. Zaveduyushchiy kafedroy malyarii Azerbaydzhanskogo gosudarst-
vennogo institut usovershestvovaniya vrachey.
(BRUCELLOSIS)
(LIVER)
(BLOOD--ANALYSIS AND CHEMISTRY)

VAZIROV, M.R., prof.

Clinical aspects of brucellosis. Azerb.med.zhur. no.1(: -1/ ('
(MIRA   :)

(BRUCELLOSIS)

NAZIROV, M.R., prof.; BABAYEV, Dzh.; EFENDIYEV, M.Ye., red.; AKHMEDOV, M.,
red.; BAGIROVA. S., tekhn.red.

[Brucellosis; pathogenesis, clinical aspects, and treatment]
Brutselles; patogenes, klinika i lechenie. Baku, Azerbaidzhanskoe
gos.izd-vo, 1960.   174 p.   (MIRA 14:3)
                    (BRUCELLOSIS)

NAZIROV, M.R., prof.; MELIKOVA, T.A., kand. med. nauk; EFENDIYEV, M., red.;
MUSTAFAYEVA, S., red.; MIRKISHIYEVA, S., tekhn. red.

[Colitis and accompanying cholcystitis and hepatocholecystitis] Ko-
lity i soputstvuiushchie im kholetsistity i gepatokholetsistity. Ba-
ku, Azerbaidzhanskoe gos. izd-vo, 1961. 62 p.   (MIRA 14:8)
    (INTESTINES—DISEASES)   (GALL BLADDER—DISEASESS)

NAZIROV, M.R.; GLASHKINA, T.P.

Effectiveness of the newest anthelmintnic drus. Azerb. med. zr.
no. 1:3-9 Ja '61.   (ANTHELMINTICS)

(MIRA 4:2,

NAZIROV, M.R.; MELIKOVA, T.A.

     Pathogenesis of cholecystitis and hepatocholecystitis. Azerb.
     med. zhur. no.9:15-21 S '61. (MIRA 14:9)
          (GALL BLADDER—DISEASES)   (LIVER—DISEASES)

NAZIROV, M.R., zasluzhennyy deyatel' nauki, prof.

Problems in brucellosis and related controversial questions.
Azerbaidzh. med. zh. no.1   l,3   (MIRA 17:1)

1. Iz kafedry meditsinskoy parazitologii i tropicheskoy bo-
lezney Azerbaydzhanskogo gosudarstvennogo instituta usover-
shenstvovaniya vrachey.
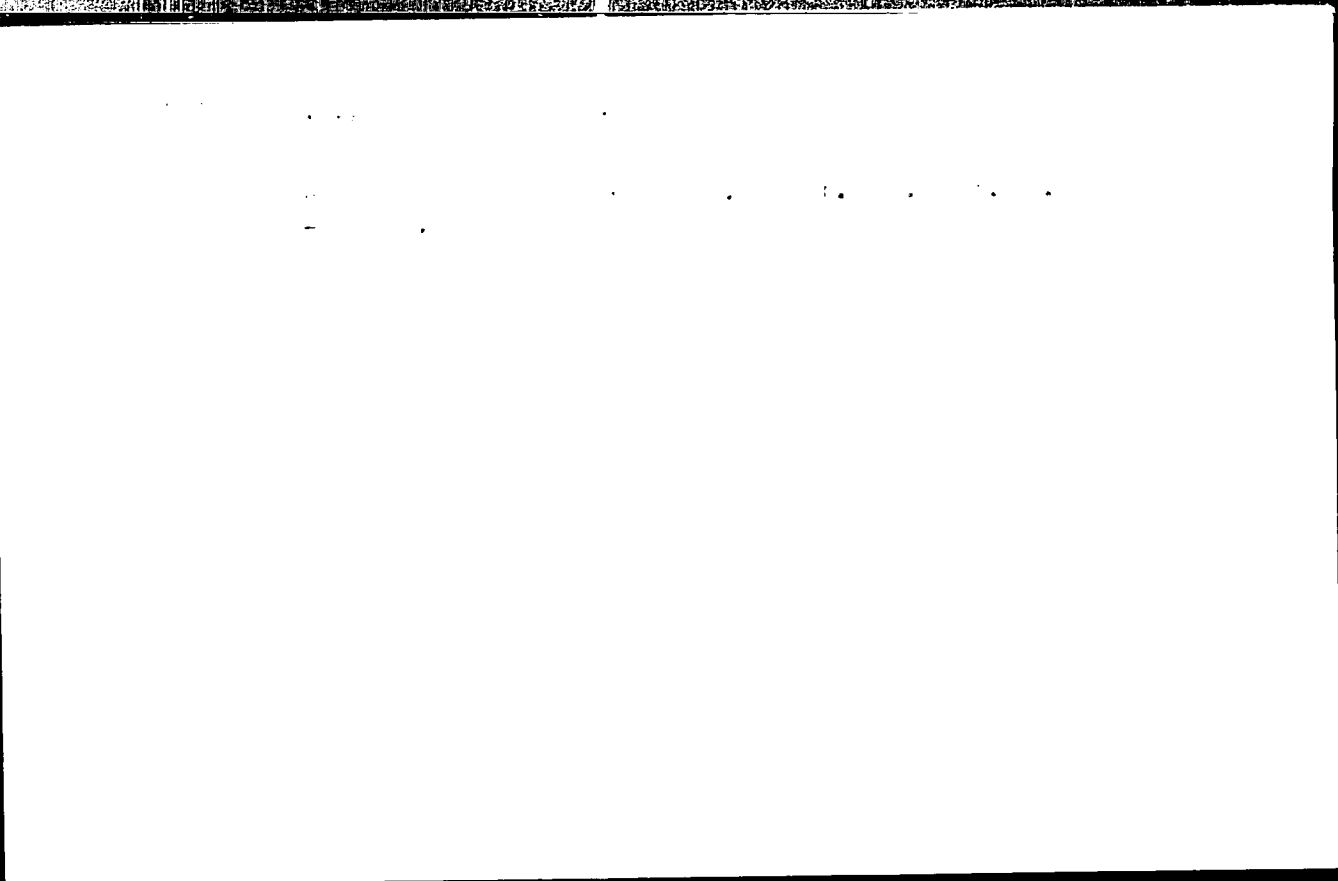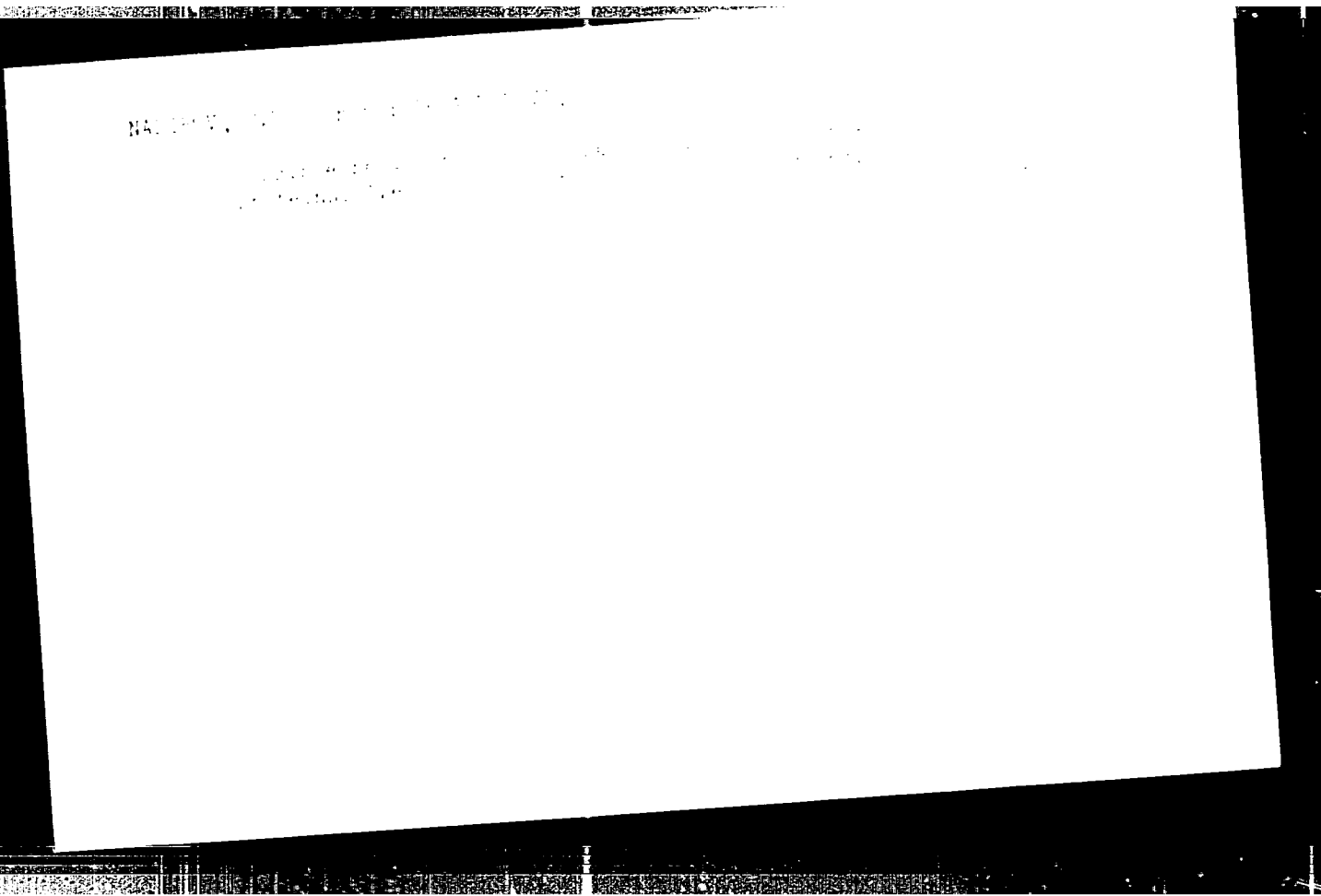
NAZIROV, M.R., zasluzhennyy deyatel' nauki, prof., GLADKINA T.
kand. med. nauk

Current concepts of helminthiasis and its prevention. Azerb.
med. zhur. 41 no.3:77-82; Mr '64.   (MIRA

1. Iz kafedry meditsinskoy parazitologii i mikrobiologii
meditsiny (zav.- prof. M.R. Nazirov, Azerbaydzhanskogo
institute usovershenstvovariya vrachey imeni A. Aliyava
(rektor - kand. med. nauk B.M. Agayev).

NAZIROV, M.R.; ABRAKHANOVA, B.N.

Possibility of the dependence of Wright's reaction on the blood
serum proteins. Zhur. mikrobiol., epid. i immun. 41 no.10:
80-84 '64.   (MIRA 18:5)

.. Azerbaydzhanskiy gosudarstvennyy institut usovershenstvovaniya
vrachey.

NAZIROV, M.?.; BELIKOVA, I.A.

Case of Q fever diagnosed in a clinic. Azerb. med. zhur. 42 no.2:63-65
F '65.   (MIRA 18:7)

NAZIROV, M.R.

Some problems concerning protozoal and bacterial colitis
and accompanying hepatocholecystitis considering the organism
as a habitat. Azerb. med. zhur. 42 no.8:77-82 Ag '65.

(MIRA 18:11)

L 20112-65   EWP(e)/EWP(m)/EPP(c)/EWP(v)/EPR/EWP(j)/T/EWP(b)   Pc-4/Pq-4/Pr-4/Pe-4

APGC(a)   RM/WH/WW

ACCESSION NR: AR4049786   8/0282/64/000/009/0071/0071

SOURCE: Ref. zh. Khimicheskoye i kholodil'noye mashinostroyeniye, Otdel'ny*y
vypusk, Abs. 9.47.467

AUTHOR: Nazirov, N.A.

TITLE: Use of polymer materials in the maintenance industry

CITED SOURCE: Nauchn. tr. Ukr. n.-i. in-t mekhaniz. i elektrifik. s. kh., v. 5,
1964, 189-194

TOPIC TAGS: epoxy repair compound, metal surface repair, epoxy resin, adhesive
polymer putty, adhesive putty formulation, adhesive putty application, dibutylphthalate,
polyethylenepolyamine/resin ED6

TRANSLATION: An adhesive putty successfully replacing nonferrous metals and char-
acterized by peak antifriction properties was formulated on a base of epoxy resin ED6
at the machine maintenance department of UN IIMESKh. The composition includes 100
parts by weight of ED6, 21 of dibutyl phthalate plasticizer, 9.5 of technical acetone as
a solvent, 220 of EG-1 graphite (GOST 4426-48, grain size to 0.45) as filler and 17
parts of polyethylenepolyamine as the hardening agent. A weighted batch of the epoxy

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L 20112-65
ACCESSION NR: AR4049786 0

resin was mixed with the dibutyl phthalate plasticizer in an electric mixer at 60 - 70C.
Solvent was added after the mixture cooled to room temperature and the filler was
stirred in gradually. Hardeners were added to the homogenized batch by means of a
pipette to control the dosage carefully and the mixture was stirred for 1.5 — 2 min. The
putty is then ready for use. A wooden spatula is used to spread the putty over a worn
and previously prepared surface. The part is then heated in a drier cabinet to 130C
and remains in it until it cools down to room temperature. A table is presented to
illustrate the physical and mechanical properties of the described adhesive putty. Two
tables, 4 illustrations. N. Milenina

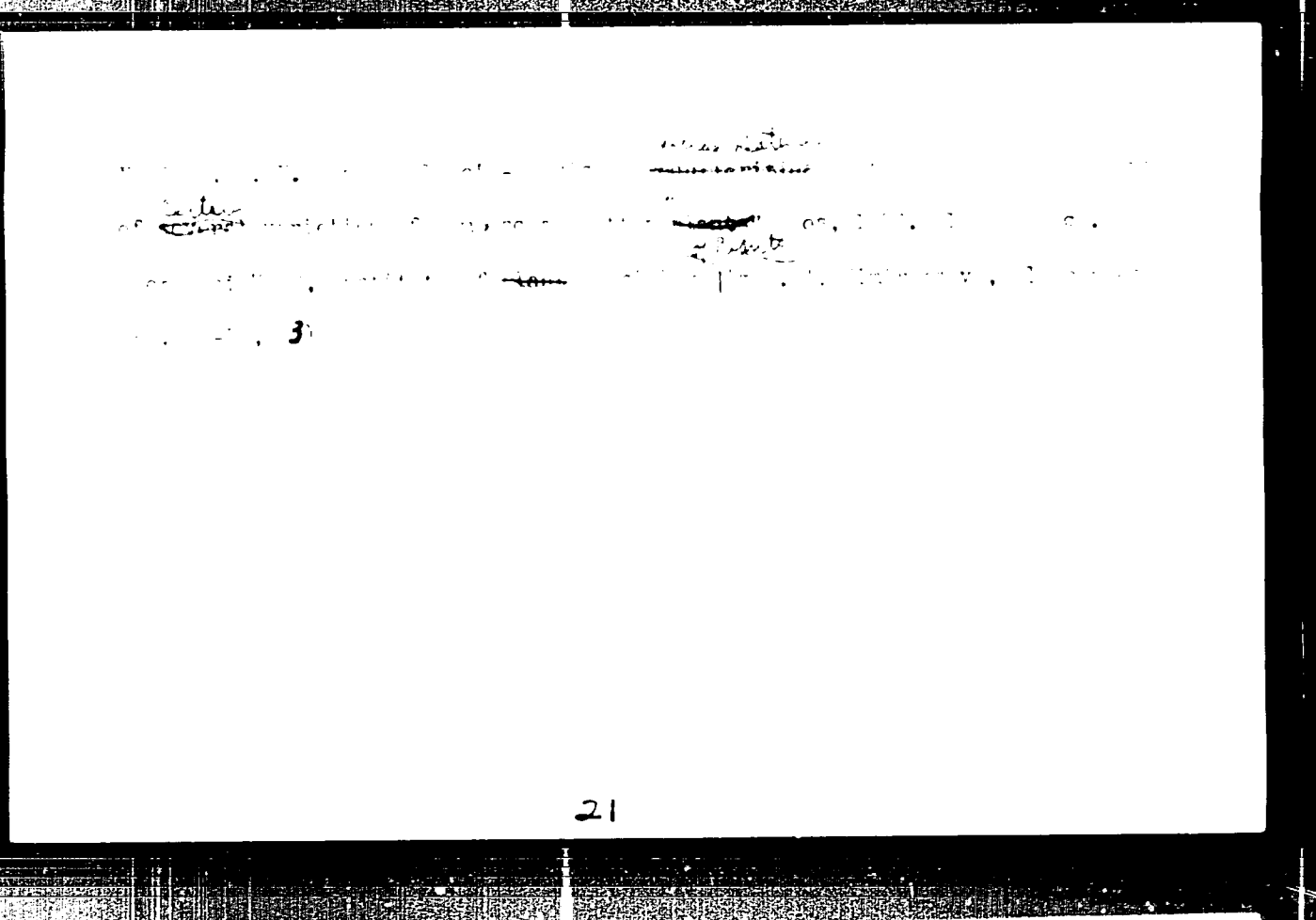SUB CODE: MT   ENCL: 00

Card 2/2

KRUZHILIN, A.S.; NAZIROV, N.N.

Peculiarities of the phasic development of some varieties of cotton
[with English summary in insert]. Fiziol.rast. 3 no.3:199-203 My-Je.
'56.   (MIRA 9:9)

1.Institut fiziologii rasteniy imeni K.A.Timiryazeva Akademii nauk
SSSR, Moskva.
            (Cotton) (Growth (Plants))

3

21

COUNTRY	:	USSR
CATEGORY	:	Cultivated Plants. Industrial, Oiciferous, Sugar. M
ABS. JOUR.	:	RZhBiol., No. 2° 1958, No. 104760
AUTHOR	:	Aruzhilin A. S., Nazirov, N. N.
INST.	:	Institute of Plant Physiology, AS Uzbek SSR
TITLE	:	The Influence of Mineral Nutrition on the Passage of Developmental Stages in Cotton Plant.
ORIG. PUB.	:	Izv. AN USSR, ser. biol ..., 1957, No. 2, 35-40

ABSTRACT : In 1954-1956, experiments were started at the hothouse of
the Institute of Plant Physiology, to determine the in-
fluence of fortified nutrition with NP (double dose) on
the rate of the passage of cotton plant through the de-
velopmental stages, also on the periods of the begin-
ning of differentiation in growth points and initiation
of axillary and flower buds. In the period of passing
through the vernalization stage, application of the in-
creased dose of P in the background of NP, accelerated
the development of the cotton plant by 4-5 days, and
application in this period of an increased amount of N

CARD: 1/3

COUNTRY   :   M
CATEGORY   :

ABS. JOUR.   :   RZhBiol., No.   195 8 No. 104760

AUTHOR   :
INST.   :
TITLE   :

ORIG. PUB.   : .

ABSTRACT   :   retarded its development. Use of the double dose of N
                   upon completion of the light stage of development,
                   starting with the period of the initiation of the flower
                   buds, accelerated the growth of the flower buds and the
                   beginning of budding in comparison with the full dose of
                   NPK or with intensified nutrition with P in this period.
                   Conclusion is made on the necessity of regulating doses
                   of the application of N and P in the supplementary dress-
                   ings, depending on the passage of the developmental

CARD: 2/3   94

NAZIROV, N.N.

Changes in oxidation-reduction processes during the phasic
development of cotton plants [with summary in English]. Fiziol.
rast. 4 no.2:159-163 Mr-Ap '57.   (MLRA 10:5)

1.Institut fiziologii rasteniy im. K.A. Timiryazeva Akademii nauk
SSSR, Moskva.
                    (Cotton) (Oxidation-reduction reaction)
                            (Growth (Plants))

SADYKOV, S.S.; NAZIROV, N.N.

Uptake and translocation of radiophosphorus in grafted cotton plants.
Dokl. AN Uz. SSR no.6:43-47 '58.   (MIRA 11:9)

1.Institut genetiki i fiziologii rasteniy AN UzSSR. 2.Chlen-korrespondent
AN UzSSR (for Sadykov).
   (Cotton) (Plants, Motion of fluids in) (Phosphorus metabolism)

NAZIROV, N.N.

Germination characteristics of cotton seeds of differing maturity.
Dokl.AN Uz.SSR no.11:53-55 ' 58.   (MIRA 11:12)

1. Institut genetiki i fiziologii rasteniy AN UzSSR. Predstavleno
chlenom-korrespondentom AN UzSSR S.S. Sadykovym.
            (Germination) (Cottonseed)

NAZIROV, N.N.

Reason for the lowering of the energy necessary for germination
and sprouting of cotton seeds by soaking in running water. Dokl.
AN Uz.SSR no.12:51-53 '58.   (MIRA 12:1)

1. Institut genetiki i fiziologii rasteniy AN UzSSR. Predstavleno
deystvitel'nym chlenom Akademii sel'skokhozyaystvennykh nauk
UzSSR S.N.Ryzhovym.
              (Cottonseed)   (Germination)

NAZIROV, N.N.

Changes in oxidation-reduction processes in grafted cotton
plants. Dokl.AN Uz.SSR no.3:44-46 '59.   (MIRA 12:7)

1. Institut genetiki i fiziologii rasteniy AN UzSSR. Predstavleno
akademikom AN UzSSR S.S.Kanashom.
          (Cotton) (Peroxidase) (Reduction, Chemical)

NAZIROV, N.N.

Substances which inhibit germination in unripe cotton seeds. Dokl.
AN Uz.SSR no.10:54-56 '59   (MIRA 13:3)

1. Institut genetiki i fiziologii rasteniy AN UzSSR. Predstavleno
chlenom korrespondentom AN UzSSR S.S. Sadykovym.
        (Cottonseed) (Amino acids)

NAZIROV, N.N.

Use of radioisotopes in studying plant biology. Uzb.biol.zhur.
no.1:66-68 '60.   (MIRA 13:6)
              (RADIOISOTOPES)   (PLANT PHYSIOLOGY)

NAZIROV, N.N.

Wilt resistance and physicochemical properties of leaf biocolliods in different varieties of grafted cotton plants. Fiziol. rast. 8 no.2:233-240 '60.   (MIRA 14:3)

1. Institute of Genteics and Plant Physiology, Uzbek S.S.R. Academy of Sciences, Tashkent.
          (Cotton wilt) (Grafting)

NAZIROV, N.N.; ZAFRUDER, Ye.G.; DZHANIKULOV, P.; MAVLYANKHODZHAYEVA, S.;
        KHAKIMOVA, M.

Biochemistry of the wilt resistance of cotton. Uzb. biol.
zhur. no.5:45-56 '61.   (MIRA 17:2)

1. Institut genetiki i fiziologii rasteniy AN UzSSR.

NAZIROV, N.N.

Water requirements of cotton varities differing in the earliness of
ripening. Uzb.biol.zhur. no.6:37-43 '61.   (MIRA 15:2)

1. Institut genetiki i fiziologii rasteniy AN UzSSR.
            (Cotton--Water requirements)

NAZIROV, N.N., kand.biologicheskikh nauk

Aftereffect of the irradiation of cotton seeds with relatively small doses of gamma rays. Agrobiolo ia no.4:541-547 Jl-Ag '63.
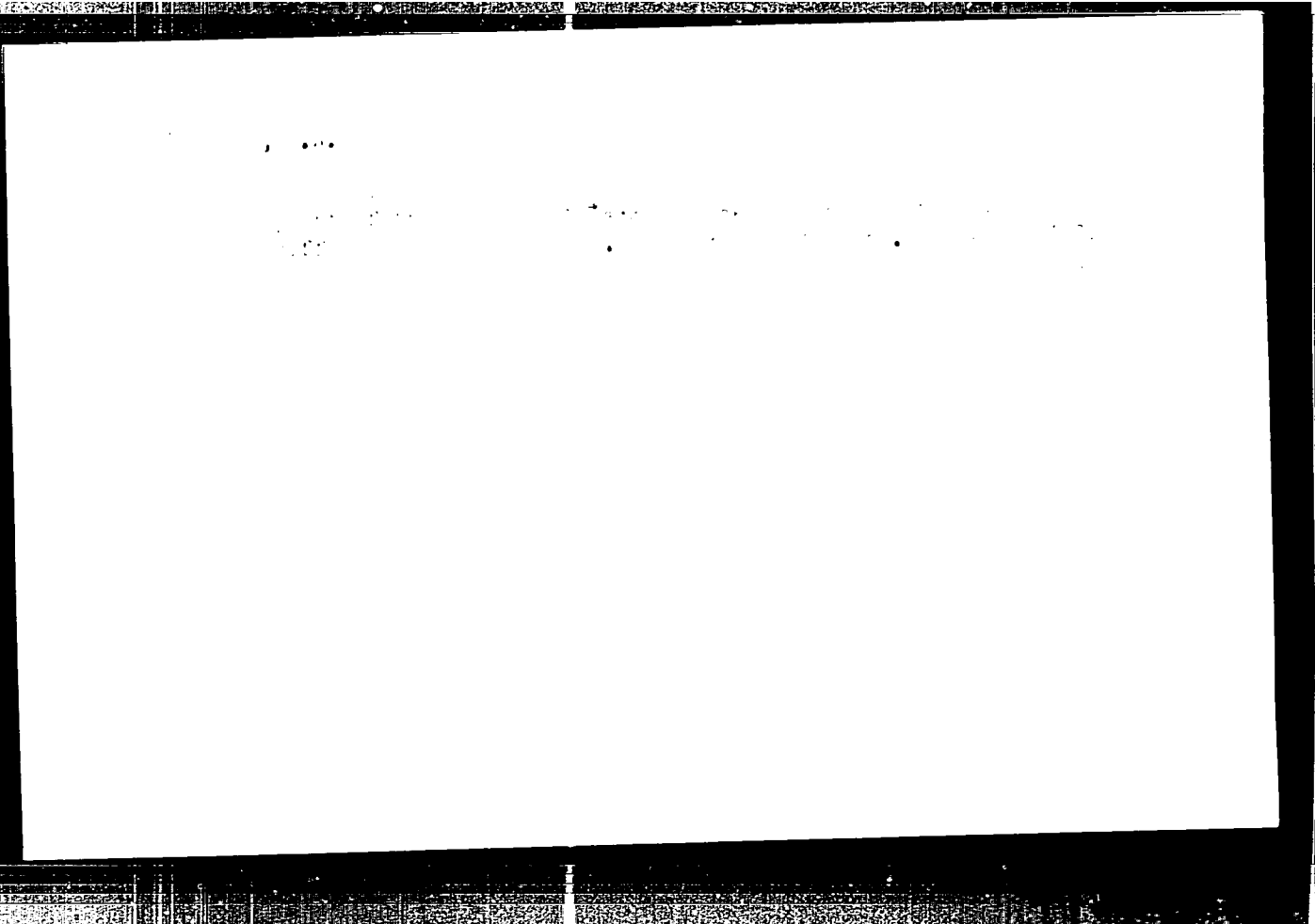(MIRA 16:9)

1. Institut genetiki i fiziologii rasteniy AN Uzbekskoy SSR, Tashkent.

(Plants, effect of gamma rays on)
(Cotton—Disease and pest resistance)

NAZIROV, N.N.

Effect of ionizing radiation on the rate of photosynthesis and
respiration in cotton varieties differing with respec* to their
ripening rate. Fiziol. rast. 11 no.2:328-330 Mr-Ap '64.
(MIRA 17:4)

1. Institute of Genetics and Plant Physiology, Academy of Sciences
of Uzbek S.S.R., Tashkent.

NAZIROV, N.N.

Some characteristics of the ecological state of plants. (with Anne. [?])
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1. Kafedra differentsial'noy geometrii Mosk ⊓⊣⊩ ⊩⊓ ⊓ ⊓° ° °°°°

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Ser.1: Mat., mekh. ... n .512-... 3-0 '65.

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Some problems concerning economic measures for the control of soil erosion and flash floods in the basin of the Kishchay River. Izv.AN Azerb.SSR.Ser.biol.i med.nauk 3:65-71 '61.   (MIRA 14:7)
(Kishchay Valley—Erosion)

KHALILOV, A.Sh., red.; LULLIN, L.I., red.; MAMED-ZADE, red.;
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    [Flash floods in the Kishchay River basin and measures for
    their control] Selevye iavleniia basseina r. Kishchai. i me-
    ropriiatiia po borbe s nimi. Baku, Izd-vo Akad azer
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MIRKIN, B.M.; NAZIROVA, Z.M.; BATALOV, A.A.

Problems of botany at the Second Scientific Session of the
Institutions of Higher Learning in the Volga Valley. Bot.
zhur. 49 no.9:1381-1382 S '64.   (MIRA 17:12)

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S/08'/62 '000 002 04' '0'
3'5'/3'08

AUTHORS: Naziyev, Ya M , Juiubev, I F.

TITLE·   An quation for calculations on ti alorimeters of arb.trar
             form

PERIODICAL: Referativnyy zhurnal Khimiya, no. 2, '462 '71 abatra:
             ?Ye36 (Izv. AN AzerbSSR Ser fiz -matem i tekhn n   r.
             1960, '45 - '49)

TEXT: A simplified equation is deduced for the neat conductivity for
calorimeters of arbitrary form   The results of calculations using th.s
equation do not differ by more than (1 - 0.2% from those obtained using
exact equations   Abstracter's note: Complete translation

Card 1/1

NAZIYEV, Ya.M.

27652

S/024/61/000/004/010/025

E032/E314

26.2181
26.2136

AUTHOR: Naziyev, Ya.M. (Baku)

TITLE: Temperature Distribution in an Unbounded Hollow
Cylinder in the Case of a Variable Heat Flow

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye
tekhnicheskikh nauk, Energetika i avtomatika,
1961, No. 4, pp. 60 - 63

TEXT: The present author derives an exact and an approximate
solution for the problem of heat flow in a hollow unbounded
cylinder in the case where the heat flow varies in accordance
with an exponential law. The solution for the case of a
hollow unbounded cylinder with a boundary condition of the first
kind has been given by Carslow (Ref. 1 - Heat-transfer Theory,
Gostekhteoretizdat, 1947) and A.V. Lykov (Ref. 2: Heat-transfer Theory, 1952).
A similar problem in the case of variable temperature of the
medium was discussed by I.N. Danilova (Ref. 3 - Izv. AN SSSR,
OTN, 1958, No. 12) and A.T. Nikitin (Ref. 4 - IFZh, 1960, Vol.3,
No.8). The analysis starts as follows. Suppose that the
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:032/£314

Temprature Distribution in ....

hollow unbounded cylinder is thermally insulated at its outer surface, while the inner surface is exposed to a variable heat flow obeying the exponential law. The heat-transfer equation is

$$\frac{\partial t}{\partial \tau} = a\left(\frac{\partial^2 t}{\partial r^2} + \frac{1}{r}\frac{\partial t}{\partial r}\right), \qquad t(r,0) = t_0 \qquad (1.1)$$

$$(R_1 \leqslant r \leqslant R_2, \quad \tau > 0)$$

and the boundary conditions are

$$\frac{\partial t}{\partial r} = -\frac{q_c}{\lambda} e^{m\tau} \quad \text{when } r = R_1 \qquad (1.2)$$

$$\frac{\partial t}{\partial r} = 0 \quad \text{when } r = R_2 \qquad (1.3)$$

where a   is the temperature diffusivity,
       λ is the thermal conductivity,
       m   is a constant, and
       q_c is the specific heat-flux.

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S/024/61/000/004/010/025

Temperature Distribution in E052/E314

Using the integral Laplace transformation, it is found that

$$T(r,s) - \frac{I_0}{s} = \frac{q_c}{\lambda} \cdot \frac{I_1(\gamma R_2) K_0(\gamma r) + I_0(\gamma r) K_1(\gamma R_2)}{(s+m)\gamma [I_1(\gamma R_2) K_1(\gamma R_1) - I_1(\gamma R_1) K_1(\gamma R_2)]} \qquad (1.4)$$

$$\gamma = \sqrt{\frac{s}{a}}$$

$$t - I_0 = \frac{1}{2\pi i} \int_{\sigma - i\infty}^{\sigma + i\infty} e^{st} \frac{X(s)}{s(s+m)Z(s)} ds \qquad (1.5)$$

where

$$X(s) = \frac{q_c}{\lambda} [I_1(\gamma R_2) K_0(\gamma r) + I_0(\gamma r) K_1(\gamma R_2)]$$

$$Z(s) = \frac{1}{a} [I_1(\gamma R_2) K_1(\gamma R_1) - I_1(\gamma R_1) K_1(\gamma R_2)] \qquad (1.6)$$

Since the integrand is a single-valued function of s and
satisfies the Jordan lemma (Lavrent'yev and Shabat - Ref. 5 -
Theory of Functions of Complex Variable, Fizmatgiz, 1958)
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Temperature Distribution in ....

one can use a closed contour. In evaluating the integral,
use is made of the Cauchy residue theorem. The final result is

$$K_1 = \frac{2}{v^2(k^2-1)} \left\{ -\frac{J_1(kv)Y_0\left(v\frac{r}{R_1}\right) - J_0\left(v\frac{r}{R_1}\right)(kv)}{v[J_1(kv)Y_1(v) - J_1(v)Y_1(kv)]} \exp(-v^2 F_0) \right. $$

$$\left. + \pi \sum_{n=1}^{\infty} \frac{\mu_n J_1^2(k\mu_n)\left[J_1(\mu_n)Y_0\left(\mu_n\frac{r}{R_1}\right) - J_0\left(\mu_n\frac{r}{R_1}\right)Y_1(\mu_n)\right]}{[J_1^2(k\mu_n) - J_1^2(\mu_n)](\mu_n^2 - v^2)} \exp(-\mu_n^2 F_0)(1.11) \right.$$

the

$$K_1 = (t - t_0)\frac{\lambda}{q_c R_1}, \qquad F_0 = \frac{a\tau}{R_1^2}$$

where

In many practical cases, one can obtain an approximate
solution which does not contain Bessel functions. In order
to obtain this approximate solution, Eq. (1.4) must be
simplified. Expanding

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Temperature Distribution in .. E032/E314

$I_0(\gamma r)$, $K_0(\gamma r)$ and $I_1(\gamma R_1)$, $K_1(\gamma R_1)$ into the Taylor series in powers of $\gamma(R_2 - r)$ and $\gamma(R_2 - R_1)$ and retaining only the first four terms, it is found that

$$T - \frac{t_n}{t} = \frac{q_c a}{\lambda} \frac{1 + N R_1^2 \frac{t}{a}}{t(t+m)\left(M + F R_1^2 \frac{t}{a}\right) R_1} \qquad (1.12)$$

where

$$N = \frac{1}{2}\left(k - \frac{r}{R_1}\right)^2 + \frac{1}{6k}\left(k - \frac{r}{R_1}\right)^3$$

$$M = (k - 1) + \frac{1}{2k}(k - 1)^2 + \frac{1}{6k^2}(k - 1)^3$$

$$F = \frac{1}{6}(k - 1)^3 \qquad (1.13).$$

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Temperature Distribution in ...   L032/E314

The final solution is

$$K_t = \frac{1}{v^2 M} - \frac{1-v^2 N}{(a^2-v^2)v^2 F} \exp(-v^2 F_0) + \frac{1-a^2 N}{(a^2-v^2)a^2 F} \exp(-a^2 F_0)$$

(1.14)

where

$$a^2 = M/F .$$

Fig. 1 shows the relation between K_t and F_o as given by Eq. (1.14) with $r/R_1 = 1$. The second part of the paper is concerned with the temperature distribution in the case where the unbounded cylinder has an outer surface maintained at a constant temperature while the inner surface is exposed to a heat flow obeying an exponential law. Solution of this problem is similar to that in the above case. Here, Eq. (1.1) and the boundary condition (1.2) remain as before and Eq. (1.3) is replaced by

$$t = t_c \quad at \quad r = R_2$$

(2.

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