

AMIROV, R.O.

AMIROV, R. O., Cand Med Sci -- (diss) ^{Au} "Evolution of the atmosphere ^a
~~in~~ in the Port of ^{Baku} Baku." Baku, 1958. 15 pp. ~~XXXXXXXXXX~~
~~XXXXXXXXXX~~ (Yerevan State Med Inst), 200 copies. (KL, 9-58,
122)

- 126 -

ABIYEV, G.S., dotsent, nauchnyy sotrudnik; ALLAKHVERDIBEKOV, G.B., dotsent, nauchnyy sotrudnik; SHEKHTMAN, B.A., dotsent, nauchnyy sotrudnik; AMIROV, R.O., kand. med. nauk, nauchnyy sotrudnik; SAMEDOV, I.G., Dotsent: ALIYEV, R.K.; prof. nauchnyy sotrudnik

Fundamental work. Azerb. med. zhur. no.6:46-48 Je '62.
(MIRA 17:8)

1. Proroktor po nauchnoy rabote Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta imeni Narimanova (for Abiyev). 2. Zaveduyushchiy kafedroy farmakologii Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta imeni Narimanova (for Allakhverdibekov). 3. Zaveduyushchiy kafedroy lekarstvennykh form i galenovykh preparatov Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta imeni Narimanova (for Aliyev). 4. Zaveduyushchiy kafedroy gigiyeny truda Azerbaydzhanskogo gosudarstvennogo meditsinskogo instituta imeni Narimanova (for Shekhtman). 5. Direktor Instituta gigiyeny truda i professional'nykh zabolevaniy Ministerstva zdravookhraneniya Azerbaydzhanskoy SSR (for Samedov).

ABIYEV, G.S.; AMIROV, R.O.

First conference of medical institutes of the Azerbaijan,
Georgian, and Armenian Republics. Sov.zdrav. 19 no.12:86-87
'60. (MIRA 1413)

(MEDICINE—CONGRESSES)

AMIROV, R. O.

Attenuation of the toxicity of preparations from the group of
alkylating agents using dibasol. Vop. onk. 8 no.2:7-12 '62.
(MIRA 15:2)

1. Iz laboratorii eksperimental'noy onkologii (zav. - zasl. deyat.
nauki, prof. N. V. Lazarev) Instituta onkologii AMN SSSR (dir. -
deystv. chl. AMN SSSR, prof. A. I. Serebrov). Adres avtora:
Leningrad, P-129, Kamenny ostrov, 2-ya Berezovaya alleya, 3/5,
Institut onkologii AMN SSSR.

(CYTOTOXIC DRUGS) (DIBASOL)

AMIROV, R.O.

Method of organizing and conducting medical examinations
of petroleum industry workers. Azerb. med. zhur. no.12:
60-63 '62. (MIRA 17:4)

AMIROV, R.O.

Some characteristics of metabolism under the conditions of
nonspecifically increased resistance of the organism. Izv.
AN Azerb. SSR. Ser. biol. i med. nauk no.1193-100 '63.
(MIRA 17:5)

AMIROV, R.O., kand. med. nauk; LAZAREV, N.V., prof., red.; BAGIROVA, S.,
tekhn. red.

[Increasing the resistance of the body to the action of ~~tox-~~
substances] Povyshenie ustoichivosti organizma k deistviu
tokicheskikh veshchestv; eksperimental'noe issledovanie. Ba-
ku, Azerbaidzhanskoe gos.izd-vo, 1963. 95 p. (MIRA 16:10)
(TOXICOLOGY) (BENZIMIDAZOLE)

AMIROV, R.O.

Effect of dibazol on animals in acute oxygen deficiency.
Farm. i toks. 26 no.1:91-97 Ja-F '63. (MIRA 17:7)

1. Laboratoriya eksperimental'noy onkologii (zav. - zasluzhennyy
deyatel' nauki prof. N.V. Lazarev) Instituta onkologii AMN SSSR.

A.M.R. et al.
AKHTENOV, V.V., AMELOV, R.SH., ODOKINA, R.M., RATHER, E.S.

"Investigation of the (γ ,p) Reaction on the Intermediate Weight Nuclei,"

Lebedev Physical Inst. USSR Acad. Sci. and Saratov State University

paper submitted at the A-U Conf. on Nuclear Reactions in Medium and Low Energy
Physics, Moscow, 19-27 Nov 57.

LIN'KOVA, N.V.; OSOKINA, R.M.; RATNER, B.S.; AMIROV, R.Sh., sotrudnik;
AKINDINOV, V.V., sotrudnik

Photoprotons from Cu⁶⁵. Zhur.eksp.i teor.fiz. 38 no.3:
780-789 Mr '60. (MIRA 13:7)

1. Fizicheskiy institut im. P.N.Lebedeva Akademii nauk SSSR.
 2. Saratovskiy gosudarstvennyy universitet (for Amirov,
Akindinov).
- (Protons) (Copper--Isotopes)

AMIROV, R.Z., kandidat tekhnicheskikh nauk.

Televisor of the brain. Zdorov'e 1 no.12:4-5 D '55. (MLRA 9:2)
(MEDICAL INSTRUMENTS AND APPARATUS)(ELECTROENCEPHALOGRAPHY)

AMIBOV, R.^{Z.} kandidat meditsinskikh nauk.

The brain lights up points on the oscillograph screen. Tekh.mel.
24 no.4:8-9 Ap '56. (MIRA 9:7)

(ELECTROENCEPHALOGRAPHY)

AMIROV, R.Z.

Investigation of the function of the olfactory analyzer by means
of new olfactometers. Trudy Vses. ob-va fiziol., biokhim. i farm.
4:5-8 '58. (MIRA 14:2)

1. Elektrofiziologicheskaya laboratoriya Gosudarstvennogo nauchno-
issledovatel'skogo instituta ukha, gorla i nosa Ministerstva
zdravookhraneniya RSFSR (zav. laboratoriyey kand.med.nauk
R.Z. Amirov).

(SMELL)

AMIROV, R.Z.; KOGAN, N.M.

Use of phonocardiography and ballistocardiography in chronic
tonsillitis and rheumatism. Trudy gos. nauch., issl. inst.
ukha, gorla i nosa no.11:107-112 '59. (MIRA 15:6)
(HEART--SOUNDS) (TONSILS--DISEASES)
(BALLISTOCARDIOGRAPHY) (RHEUMATIC FEVER)

MALOMUZH, F.F.; KOSACHEVA, A.P.; LUNEVA, A.S.; AMIROV, R.Z.; BUREVA, V.B.;
MARKOVA, V.I.; FEDDOVA, V.A.

Pathogenesis of acute and chronic otitis in children. Trudy
gos. nauch.-issl. inst. ukha, gorla i nosa no.11:199-206
'59. (MIRA 15:6)

1. Iz klinicheskogo otdeleniya detskogo vozrasta ^{growth} Gosudarstvennogo
nauchno-issledovatel'skogo instituta ukha, gorla i nosa.
(EAR--DISEASES)

AMIROV, B.Z., kand.med.nauk

Cybernetics in medicine. Zdorov'4 5 no.4:4-5 Ap '59.

(MIRA 12:4)

(CYBERNETICS)

AMIROV, R.Z.

Observations on the effect of subliminal olfactory stimuli on smell sensitivity under normal and pathological conditions. Biul. eksp. biol. med. 47 no.5:39-42 My '59. (MIRA 12:7)

1. Iz elektrofiziclogicheskoy laboratorii (zav. - kand.med. nauk R.Z. Amirov) Gosudarstvennogo nauchno-issledovatel'skogo instituta ucha, gorla i nosa (dir. - zaslushennyi deyatel' nauki prof. V.K. Trutnev), Moskva. Predstavlena deystvitel'nyim chlenom AMN SSSR V.V. Parinym.

(SMELL, physiol.

eff. of subliminal stimuli in normal & pathol. cond. (Rus))

AMIROV, R.Z.

Trigeminal 3-component method of studying higher nervous activity
in man. Zhur. vys. nerv. deiat. 10 no. 3:468-472 My-Je '60.
(MIRA 14:2)

1. Electrophysiological Laboratory, Institute of Rhino-otolaryngology,
Moscow.

(CONDITIONED RESPONSE) (TRIGEMINAL NERVE)

AMIROV, R.Z.

Cardiotopscopy; method for the topographical analysis of the electrical activity of the heart. Kardiologiya 1 no.2:55-61 Mr-Apr '61.

(MIRA 15:1)

1. Iz laboratorii electrofiziologii (zav. - prof. M.N.Livanov) Instituta vysshey nervnoy deyatel'nosti AN SSSR i iz laboratorii klinicheskoy fiziologii (zav. - prof. A.G.Bukhtiyarov) Instituta grudnoy khirurgii AMN SSSR (dir. - prof. S.A.Kolesnikov, nauchnyy rukovoditel' - akademik A.N.Bakulev).

(ELECTROCARDIOGRAPHY)

AMIROV, R.Z.; ZOL'NIKOV, S.M.; IVANOVA, V.I.; STRAKHOV, S.N.

Study of electroencephalographic data during present-day
intubation anesthesia. Vest.khir. no.6:57-61 '62.

(MIRA 15:11)

1. Iz laboratorii klinicheskoy fiziologii (zav. - prof. A.G.
Bukhtiyarov), laboratorii anesteziologii (zav. - kand.med.nauk
S.M. Zol'nikov) i otdeleniya priobretennykh porokov serdtsa
(zav. - prof. S.A. Kolesnikov) Instituta serdechno-sosudistoy
khirurgii AMN SSSR.

(ELECTROENCEPHALOGRAPHY) (INTRATRACHEAL ANESTHESIA)

AMIROV, R.Z.

Cardiotoposcopy with simultaneous electrocardiography in high-speed cinematography. Biul. eksp. biol. i med. 54 no.8:108-111 Ag '62.

(MIRA 17:11)

1. Iz laboratorii klinicheskoy fiziologii (zav. - prof. A.G. Bukhtiyarov) Instituta serdechno-sosudistoy khirurgii (dir. - prof. S.A. Kolesnikov, nauchnyy rukovoditel' - akademik A.N. Bakulev) AMN SSSR, Moskva.

L 27826-65 ENG(j)/ENG(r)/EXT(1)/FS(v)-3/ENG(v)/ENG(a)/ENG(c) Po.5 DD

ACCESSION NR: AP5000267

S/0239/64/050/012/1500/1506

AUTHOR: Amirov, R. Z.

TITLE: Simultaneous electrocardiotoposcopy and vectorcardiography

SOURCE: Fiziologicheskii zhurnal SSSR, v. 50, no. 12, 1964, 1500-1506

TOPIC TAGS: human, electrocardiography, electrocardiotoposcopy, vectorcardiography, heart electrical activity

ABSTRACT: The spatial dynamics of the electrical field of the heart were investigated by simultaneous electrocardiogram and vectorcardiogram to determine the origin of EKG waves and particularly of the QRS spike. Thirty healthy persons and 200 patients were investigated with the following arrangement of electrodes: 1) 50 electrodes on the chest, 2) 30 electrodes on the chest and 20 electrodes on the back, and 3) all 50 electrodes on the back. Biopotentials from the 50 leads were studied using an electronic encephaloscope consisting basically of preamplifiers, a commutator, an amplifier, and a dual-beam oscilloscope. The commutator made it

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1. 27826-65

ACCESSION NR: AP5000267

possible to switch on all the leads in rapid succession and obtain an image of the biopotentials in the form of 50 glowing points and 50 glowing marks (see enclosure). Simultaneous electrotoposcological photography of the heart with an electrocardiographic curve for a given lead was accomplished by attaching a mirror to the upper part of the dual-beam oscilloscope screen to reflect the cardioscope screen curve. Phonocardiographs were also recorded simultaneously. The QRS spike is analyzed in great detail in relation to the electrical zones of the heart. Orig. art. has: 6 figures.

ASSOCIATION: Laboratoriya klinicheskoy fiziologii Instituta serdechno-sosudistoy khirurgii AMN SSSR, Moscow (Laboratory of Clinical Physiology of the Institute of Cardiovascular Surgery AMN SSSR)

SUBMITTED: 21Jul62

ENCL: 01

SUB CODE: IS

NR REF SOV: 002

OTHER: 000

Card 2/3

L 27826-65

ACCESSION NR: AP5000267

ENCLOSURE 01

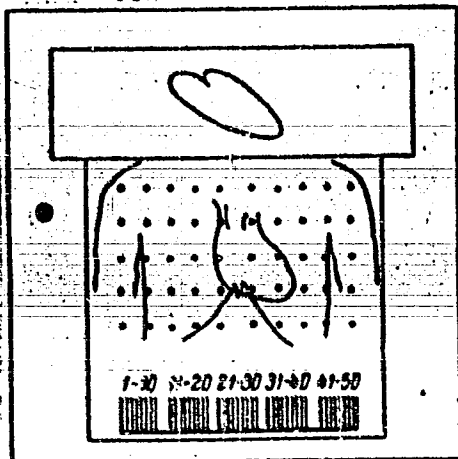


Fig. 2. Diagram of one picture exposure with contours of the heart and chest.

Above is the vectorcardiogram in a mirror. The numbers below indicate the electrode numbers.

Card 3/3

AMIROV, Rasim Zakargyeyich; IPATOV, V.P., red.

[Electrocardiotopography] Elektrokardiotopografiia.
Moskva, Meditsina, 1965. 142 p. (MIRA 18:7)

AMIROV, S.S.; RYBIN, G.Ye.

Operation of a tank farm. Neftianik 6 no.4:17-18 Ap '61.
(MIRA 14:8)

1. Direktor Chishminskoy neftebazy (for Amirov). 2. Pred-
sedatel' grupkoma Bashkirskogo tovarno-transportnogo upravleniya
Glavnoftesnaba RSFSR.

(Chishmy--Tanks)

AMIROV, S.T.; MAMEDOV, Kh.S.

Possible three-dimensional condensates of wollastonite chains
(W-frameworks). Azerb. khim. zhur. no. 2:115-120 '65.
(MIRA 18:12)

1. Institut khimii AN AzerSSR. Submitted August 20, 1964.

ABRAMOV, M.A.; ALIVERDIZADE, K.S.; AMIROV, Ye.M.; ARENSON, R.I.; ARSEN'YEV, S.I.; BAGDASAROV, R.M.; BAGDASAROV, G.A.; BADAMYANTS, A.A.; DANIYEL'YAN, G.N.; DZHAFAROV, A.A.; KAZAK, A.S.; KERCHENSKIY, M.M.; KONYUKHOV, S.I.; KRASNOBAYEV, A.V.; KURKOVSKIY, A.I.; LALAZAROV, G.S.; LARIONOV, Ye.P.; LISTENGARTEN, M.Ye.; LIVSHITS, B.L.; LISIKYAN, K.A.; LOGINOVSKIY, V.I.; LYSENKOVSKIY, P.S.; MOLCHANOV, G.V.; MAYDEL'MAN, N.M.; OKHON'KO, S.K.; ROMANIKHIN, V.A.; ROSIN, I.I.; RUSTAMOV, E.M.; SARKISOV, R.T.; SKRYPNIK, P.I.; SOBOLEV, N.A.; TARATUTA, R.N.; TVOROGOVA, L.M.; TER-GRIGORYAN, A.I.; USACHEV, V.I.; FAYN, B.P.; CHICHEROV, L.G.; SHAPIRO, Z.L.; SHEVCHUK, Yu.I.; TSODIK, A.A.; ABUGOV, P.M., red.; MARTYNOVA, M.P., vedushchiy red.; DANIYEL'YAN, A.A.; TROFIMOV, A.V., tekhn.red.

[Oil field equipment; in six volumes] Neftianoe oborudovanie; v shesti tomakh. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gornoplivnoi lit-ry. Vol.3. [Petroleum production equipment] Oborudovanie i instrument dlia dobychi nefti. 1960. 183 p.
(MIRA 13:4)

(Oil fields--Equipment and supplies)

AMIROV, Z. S.: Master Agric Sci (diss) -- "The two-harvest cultivation of potatoes on the Apsheron peninsula, Azerbaydzhan SSR". Leningrad-Pushkin, 1958. 13 pp (Min Agric USSR, Leningrad Agric Inst), 150 copies (KL, No 5, 1959, 152)

KHAT'YANOV, F.I.; AMIROVA, A.V.; IVANOVA, Z.S.

Lit-par-lit zonality of the velocity of seismic waves within some oil-bearing platform structures in Bashkiria. Sov. geol. 4 no.3:97-105 Mr '61. (MIRA 14:5)

1. Trest "Bashneftegeofizika,"
(Bashkiria—Geology, Structural)
(Seismic waves)

S/169/61/000/011/020/065
D228/D304

AUTHORS: Khat'yanov, F.I., Amirova, A.V., and Ivanova, Z.S.
TITLE: Layer zonality of the speed of seismic waves within
certain oil-bearing platform structures of Bashkiriya
PERIODICAL: Referativnyy zhurnal, Geofizika, no. 11, 1961, 22 - 23
abstract 11A203 (Sov. geologiya, no. 3, 1961, 97-105)

TEXT: A study was made of the horizontal changes in the layer velocities for a number of oil-bearing structures of Bashkiriya. The data of seismic logging and information, obtained during the detailed study of divergences between seismic and borehole data for separate parts of the area, were used. It is established that within a number of areas in Bashkiriya's platform part there is a layer zonality for the elastic wave velocity, density, and porosity in a carbonate rock complex, this being caused by the zonality of the tectonic and environmental conditions. Sharp changes in the velocity are confined to certain structures, and in a number of cases there are zones of reduced velocities. When prospecting gentle

Card 1/2

AMIROVA, F.

Studying the progeny of two-sided ears. Izv. AN Azerb.
SSR. Ser. bio]. i med. nauk no. 4:19-23 '61. (MIRA 14:7)
(WHEAT) (INHERITANCE OF ACQUIRED CHARACTERS)

AMIROVA, F.D.,

Cytogenetic study of modified wheat plants. Trudy Inst. gen. i sel.
AN Azerb. SSR 1:80-84 '59. (MIRA 13:1)
(Wheat) (Botany--Variation)

AMIROVA, F.D.

Studying the progeny of soft wheat (Tr. aestivum L. var. Barba-
rossa) derived from durum wheat (Tr. durum Desf. var. Apulicum).
Izv.AN Azerb.SSR.Ser.biol.i med.nauk no.3:43-46 '62. (MIRA 15:9)
(AZERBAIJAN--WHEAT)

KIR'YALOV, N.P.; AMIROVA, G.S.

Triterpene acids from the roots of *Meristotropis triphylla*
Fisch. et Mey. Khim. prirod. soed. no.5:311-315 '65.

(MIRA 18:12)

1. Botanicheskiy institut imeni V.I. Komarova AN SSSR. Submitted
May 5, 1965.

IVISHAYA, I.S., assistant; Mark V., P.M., vrain

Surgical treatment of the toxic and common goiter. Zhur. nostr.
r.b. Sur. gos. med. inst. 44:271-275 '64.

(MIRA 18:7)

1. Ia fakul'tetskoy khirurgicheskoy kliniki (zav. - prof. I.M.
Popov'yan [deceased]) Saratovskogo meditsinskogo instituta.

AMIROVA, N Yu.

S/166/60/000/004/004/008
C111/C222

AUTHORS: Arifov, U.A., Academician of the Academy of Sciences Uzbek-
kaya SSR, Kleyn, G.A., Filippov, A.N., Amirova, N.Yu.,
Adilkhodzhayeva, G.A., Okun', G.S. and Osipova, L.Kh.

TITLE: The Radiation-Induced Graft Copolymerization of Natural Silk,
Capron and Viscose //

PERIODICAL: Izvestiya Akademii nauk Uzbekskoy SSR. Seriya fiziko-
matematicheskikh nauk, 1960, No.4, pp.59-64.

TEXT: Continuing the authors' investigations (Ref.1-7) the processes
mentioned in the title were investigated, whereby it was stated: By
radiation it is possible to obtain graft polymeres of natural silk,
of capron and of viscose for an immediate contact with the monomers
and their solutions. The reaction of the graft copolymerization of
the mentioned fibre materials with styren and methylmetacrylate is
more extensive than their reaction with vinyl acetate. The synthesis
of the graft copolymeres takes easily place in presence of methyl
alcohol; often the reaction is accelerated by water; the role of the
water seems to be complicated. If the graft of styren and methylmeta-

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S/166/60/000/004/004/008
C111/C222

The Radiation-Induced Graft Copolymerization of Natural Silk, Capron and Viscose

acrylate takes place under conditions where no strong γ -radiation¹⁹ is necessary, then it improves the dynamometric properties of the modified fibres. The copolymerization of the fibre materials with styren and methylmetacrylate (graft 50-80%) takes place in the fibre. There are 15 references: 10 Soviet, 4 Polish and 1 Swiss. ✓

ASSOCIATION: Institut yadernoy fiziki AN Uz SSR (Institute of Nuclear Physics of the Academy of Sciences Uzbekskaya SSR)

SUBMITTED: May 24, 1960

Card 2/2

S/844/62/000/000/080/129
D423/D307

AUTHORS: Arifov, U. A., Klein, G. A., Filippov, A. N., Amirova,
N. Yu., Adilkhodzhaeva, G. A., Okun', G. S. and Osipova,
L. Kh.

TITLE: Radiation grafting of vinyl monomers to certain natural
and chemical fibers

SOURCE: Trudy II Vsesoyuznogo soveshchaniya po radiatsionnoy khi-
mii. Ed. by L. S. Polak. Moscow, Izd-vo AN SSSR, 1962,
470-475

TEXT: The present work is a continuation of previous investiga-
tions by Arifov and Klein, with the object of obtaining grafted
copolymers of styrene, methylmethacrylate and vinyl acetate with
raw silk, caprone and viscose. Irradiation was carried out with a
Co⁶⁰ source at a dosage of 10^5 to 5×10^6 rep on solutions of the
monomers in various organic solvents. Grafted polymers of natural
silk, caprone and viscose with styrene and methylmethacrylate were
formed more readily than with vinyl acetate, and grafting with sty-

Card 1/2

Radiation grafting of ...

5/844/62/000/000/080/129
D4.3/D307

rene took place on direct contact of fibers with pure styrene and with a solution of styrene in methanol. Grafting with methylmethacrylate took place by conditioning the fibers in the presence of substances which dissolve polymethylmethacrylate, i.e. acetone and acetoacetic ester. The extent of grafting was increased with increase of dosage up to defined limits, after which it is sharply retarded. Methylmethacrylate grafted to viscose produced material which could be dyed with basic dyestuffs and by grafting styrene and methylmethacrylate to the various fibers it was found that their dynamic properties were improved. It was also found that copolymerization of fibrous materials with styrene and methylmethacrylate with up to 50 - 80% grafting, took place within the fiber. There are 5 figures.

ASSOCIATION: Institut yadernoy fiziki AN UzSSSR (Institute of Nuclear Physics, AS UzSSR).

Card 2/2

AMIROVA, R. Yu.

"Investigating the Chemical Nature of Epoxy Resins." Cand Chem Sci, Inst
Of High-Molecular Compounds, Leningrad, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational
Institutions (13)
SO: Sum. No. 598, 29 Jul 55

AMIROVA, R. Z.

"Influence of Siccorenin on Diuresis," Farmakol. i Toskkol., Vol 9, No. 2,
1946.

Kirghiz State Medical Inst. Pharmacology, Lab.

Amirova, S.A.

AMIROVA, S.A.; PECHKOVSKIY, V.V.; PARKACHEVA, V.V.

~~██████████~~
Studying the roasting of carbonaceous pyrite. Zhur.prikl.khim.
30 no.12:1735-1740 D '57. (MIRA 11:1)

1.Permskiy gosudarstvennyy universitet imeni A.M. Gor'kogo.
(Pyrites)

AMIROVA, S.A.; PECHKOVSKIY, V.V.; BERESNEVA, T.I.

Kinetics of the reduction of iron-vanadium spinel by hydrogen.
Zhur.prikl.khim. 38 no.6:1247-1252 Je '65.

(MIRA 18:10)

1. Permskiy politekhnicheskiy institut.

AMIROVA, S.A.; PECHKOVSKIY, V.V.; KURMAYEV, R.Kh.

Chlorination of vanadium trioxide and vanadium spinels
in a melt. Zhur.prikl.khim. 38 no.9:2107-2110 S '65.
(MIRA 18:11)

1. Permskiy politekhnicheskiy institut.

SOV/156-58-3-49/52

AUTHORS: Pechkovskiy, V. V., Amirova, S. A., Parkacheva, V. V.

TITLE: The Investigation of the Sulfatization by the Combustion of the Cobalt Concentrates in a Pseudo-Boiling Charge
(Issledovaniye sulfatiziruyushchego obzhiga kobal'tovogo kontsentrata v psevdoozhizhennom sloye)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya tekhnologiya, 1958, Nr 3, pp. 592-594 (USSR)

ABSTRACT: In the present paper the sulfatization of cobalt concentrate in combustion in the laboratory was investigated. The degree of sulfatization of the cobalt; the sulfur combustion; the smoke separation and its dependence on the temperature; and the composition of the concentrate and the granular size of the particles in the concentrate were determined. It was found that the smoke separation in the combustion of cobalt concentrates in the boiling charge of the laboratory furnace depends on the air velocity, the physical and chemical properties of the material, the temperature, and the granular state of the material. At 450°C the smoke separation amounts to 2 - 3 %, at 600-700°C to 16 - 20 %. Also, the separation

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SOV/156-58-3-49/52
The Investigation of the Sulfatization by the Combustion of the Cobalt
Concentrates in a Pseudo-Boiling Charge

ASSOCIATION: Kafedra Tekhnologii neorganicheskikh veshchestv
Leningradskogo gosudarstvennogo universiteta im. A. M. Gor'kogo
(Chair for the Technology of Inorganic Substances at Leningrad
State University imeni A. M. Gor'kiy)

SUBMITTED: January 24, 1958

Card 3/3

SOV/81-59-16-57594

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 16, pp 278-279 (USSR)

AUTHORS: Amirova, S.A., Polyak, A.M.

TITLE: The Study of Chlorination Roasting of the Cinders of the Sulfuric Acid Industry With the Utilization of Its Heat

PERIODICAL: Tr. Ural'skogo n.-i. khim. in-ta, 1958, Nr 7, pp 217-224

ABSTRACT: Chlorination roasting is combined with the process of cooling of cinders dumped from sulfuric acid roasting kilns. For this purpose the hot cinders are mixed with the corresponding quantity of finely-ground NaCl. Thanks to this method the heat of the cinders coming out of the kilns is used in their chlorination treatment and chlorinated cinders are obtained directly in the sulfuric acid plants relatively simple, without considerable capital expenditures. From the chlorinated cinders Cu, Zn and precious metals are extracted by the hydrometallurgical method. The obtained product is used as raw material in the ferrous metallurgy. Chlorination roasting was carried out in the course of 0.5 - 2 hours at 350, 450 and 550°C and also under the conditions of decreasing temperature from 700 to 450°C. NaCl was introduced in the quantity of 10 - 20% of the cinder

Card 1/2

PECHKOVSKIY, V.V.; AMIROVA, S.A.; PARKACHEVA, V.V.

Obtaining valuable components from flotation pyrite by sulfating
roasting. Zhur. prikl. khim. 31 no.10:1466-1471 0 '58.

(MIRA 12:1)

1. Permskiy gosudarstvennyy universitet imeni A.M. Gor'kogo.
(Pyrites) (Metallurgy)

15(2)

SOV/156-59-2-46/48

AUTHORS:

Amirova, S. A., Pechkovskiy, V. V., Prokhorova, V. G.,
M. I. Polotnyanskikh

TITLE:

The Examination of the Oxidizing and Chlorinating Burning of
Vanadium-Slag (Izucheniye oksislitel'nogo i khloriruyushchego
obzhiga vanadiyevogo shlaka)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya
tekhnologiya, 1959, Nr 2, pp 398-401 (USSR)

ABSTRACT:

The production of vanadium from converter-slag by oxidizing
burning with sylvinite, potassium-, or sodiumchlorite or by
treatment with dry chlorine gas is investigated. Finely crushed
slag was mixed with various admixtures and burned in a
laboratory furnace under a stream of air or chlorine. The
portion of soluble vanadates which had formed after the
burning, was analytically determined. When treated with chlorine,
the waste gas was condensated, and the content of V, Fe, and
Ti was determined in the condensate. The results are shown in
(Tables 1-3). The best yield of vanadium is obtained at
temperatures of from 800 to 850 degrees. Higher temperatures
caused overbaking and thereby reduced the yield. The use of
sylvinite, potassium-, or sodiumchloride made no differences

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The Examination of the Oxidizing and Chlorinating
Burning of Vanadium-Slag

SOV/156-59-2-46/48

in the yield, but the reaction develops faster with the two potassium salts. Fine-grain crushing of the slags results in higher yields. The yield of vanadium and iron by chlorinating the slags is shown in table 4. The iron chlorides condense much easier than the vanadium chlorides. The mixture of iron- and vanadium-chlorides could therefore be separated by distillation. The addition of carbon increases the yield of chlorides, but leads to the forming of volatile titanium-chlorides, which pass into the condensate. There are 4 tables and 9 Soviet references.

PRESENTED BY: Kafedra tekhnologii neorganicheskikh veshchestv Perm'skogo gosudarstvennogo universiteta im. A. M. Ger'yogo (Chair for Technology of Inorganic Materials Perm' State University imeni A. M. Ger'kiy)

SUBMITTED: December 29, 1958

Card 2/2

PECHKOVSKIY, V.V.; AMIROVA, S.A.; POLTONYANSHCHIKOVA, M.I.

Investigation of preliminary slag roasting on the vanadium
recovery process. Izv. vys. ucheb. zav.; tsvet. met. 3 no.3:97-
101 '60. (MIRA 14:3)

1. Permskiy gosudarstvennyy universitet, Kafedra tekhnologii
neorganicheskikh veshchestv.
(Vanadium--Metallurgy) (Slag)

AMIROVA, S.A.; PECHKOVSKIY, V.V.; PROKHOROVA, V.G.; POLOTNYANSHCHIKOVA, M.I.

Study of the oxidation roasting of converter slags for the extraction of vanadium. Izv.vys.ucheb.zav.; khim.i khim.tekh. 3 no.6:1056-1061 '60. (MIRA 14:4)

1. Permskiy politekhnicheskii institut, kafedra tekhnologii neorganicheskikh veshchestv.
(Vanadium) (Slag)

AMIROVA, S.A.; PECHKOVSKIY, V.V.; KAMEKO, B.S.; STEPANOVA, A.F.

Investigating methods for using pickling solutions. Uch. zap.
Perm. gos. un. 17 no.1:61-72 '60. (MIRA 14:11)
(Metals--Pickling)

PECHKOVSKIY, V.V.; AMIROVA, S.A.; KAMEKO, G.F.; POLOTNYANSHCHIKOVA, M.I.

Investigating the granulation and firing of vanadium slag with
additives. Uch. zap. Perm. gos. un. 17 no.1:83-90 '60.
(MIRA 14:11)

(Vanadium)

PECHKOVSKIY, V.V.; AMIROVA, S.A.; KAMEKO, B.S.

Study of the ways of utilizing hydrolysis acid. Zhur. prikl. khim.
33 no.9:1976-1981 S '60. (MIRA 13:10)

1. Permskiy gosudarstvennyy universitet imeni A.M. Gor'kogo.
(Sulfuric acid)

PECHKOVSKIY, V.V.; AMIROVA, S.A.; KETOV, A.N.

Reduction of iron, zinc, manganese, magnesium and calcium sulfates
by hydrogen and carbon. Uch. zap. Perm. gos. un. 17 no.1:3-
14 '60. (MIRA 14:11)

(Reduction, Chemical)
(Sulfates)

PECHKOVSKIY, V.V.; AMIROVA, S.A.; KETOV, A.N.

Intensification of the reduction of sulfates by adding sodium
and potassium carbonates. Uch. zap. Perm. gos. un. 17 no.1:45-
54 '60. (MIRA 14:11)

(Sulfates)
(Reduction, Chemical)

AMIROVA, S.A.; PECHKOVSKIY, V.V.; PROKHOROVA, V.G.; ZUYEVA, N.D.

Investigating the conditions for chlorination of converter slag.
Uch.zap. Perm. gos. un. 17 no.1:73-82 '60.

(MIRA 14:11)

(Chlorination)
(Slag)

S/137/62/000/005/031/150
A006/A101

AUTHORS: Amirova, S. A., Pechkovskiy, V. V., Prokhorova, V. G., Polotnyanshchikova, M. I.

TITLE: Roasting of granulated and moistened vanadium-containing charges in an enlarged laboratory furnace

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 18, abstract 50108 ("Sb. nauchn. tr. Permsk. politekhn. in-t", 1961, no. 10, 111 - 119)

TEXT: The authors studied optimum conditions of roasting granulated V-charges and the possibility of combining granulation, drying and roasting of moistened V-charges in an enlarged rotating tubular furnace. For this purpose, mixtures consisting of converter slag, sylvinite, and refuse slime, were granulated and roasted. Best results were obtained when roasting granules of 2 - 5 mm fraction at 850°C with addition of sylvinite ($n = 0.5$) and 5% refuse. The degree of V extraction was 94 - 95%. Roasting of moistened, freshly prepared granules at 850°C makes it possible to extract up to 95% V. Roasting of the charge with simultaneous granulation of the material in the furnace is possible, the charge

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obtained with a charge consisting of slag with addition of sylvinite ($n = 0.5$) and 5% refuse, with 10.5% moisture at a slope angle of the furnace of 1°30'. When employing such methods of roasting V-containing slags, V extraction increases up to 94 - 95%. There are 7 references.

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R000101310003-2

G. Svodtseva

[Abstracter's note: Complete translation]

Card 2/2

8/137/62/000/005/032/150
A006/A101

AUTHORS: Amirova, S. A., Pechkovskiy, V. V., Prokhorova, V. G., Polotnyan-
shchikova, M. I., Derendyayeva, M. P.

TITLE: Preliminary oxidizing as a means of raising the degree of vanadium
extraction from converter slags

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 18, abstract
53109 ("Sb. nauchn. tr. Permsk. politekhn. in-t", 1961, no. 10,
121 - 129)

TEXT: Studies were conducted of the optimum conditions for roasting V-
charges composed of previously oxidized slag and alkaline admixtures. All ex-
periments were made on an enlarged laboratory rotary furnace 2,500 mm long with
100 mm inner diameter. Initial material was converter slag of the following
composition (in %): V_2O_5 13.5; MnO 3.8; MgO 0.95; Fe₂O₃ 3.1; FeO 37.9;
 TiO_2 8.2; SiO_2 31.4; Cr_2O_3 9.1; CaO 1.1; Al_2O_3 2.04. KCl and commercial
sylvinite containing NaCl 74.5% and KCl 22%, were employed as alkaline admix-
tures. The molar ratio, in composing the charge, of the alkaline admixture to

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S/137/62/000/005/030/150
A006/A101

AUTHORS: Amirova, S. A., Pechkovskiy, V. V., Prokhorova, V. G., Derendiyayeva,
M. P.

TITLE: Developing a new technology of extracting vanadium from converter
slags

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5, 1962, 17 - 18, abstract
5G107 ("Sb. nauchn. tr. Perms., politekhn. in-t", 1961, no. 10,
131 - 137)

TEXT: On the model of a generalized laboratory unit optimum conditions
were studied for the following stages of a technological system for extracting
V from slag: oxidizing roasting of crushed converter slag without admixtures;
hot acid lixiviation of the roasted slag, and precipitation of V_2O_5 from the
solutions obtained. The experiments were made with converter slags of the fol-
lowing chemical composition (in %): V_2O_5 13.5; FeO 37.9; Cr_2O_3 9.1; MnO 3.8;
 ThO_2 8.2; CaO 1.1; MgO 0.95; SiO_2 34.4; Al_2O_3 2.0 and Fe_{met} 3.1. It was
found that optimum conditions for roasting non-granulated slag are as follows:

Card 1/2

S/081/62/000/012/038/063
B166/B101

AUTHORS: Amirova, S. A., Pechkovskiy, V. V., Prokhorova, V. G.,
Derendyaeva, M. P.

TITLE: Development of a new production process for the extraction
of vanadium from converter slags

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 12, 1962, 384, abstract
12K76 (Sb. nauchn. t. Permsk. politekhn. in-t, no. 10,
1961, 131-137)

TEXT: The production process includes the following main stages:
oxidizing roasting of the converter slag without alkaline additions with
the object of converting the V into acid-soluble compounds; the extraction
of the V from the oxidized slag with H_2SO_4 solutions, and the precipita-
tion of V from the lyes with a view to obtaining commercially pure V_2O_5 .
The optimum conditions for the oxidizing roasting of an ungranulated slag
without additions are a temperature of $850^{\circ}C$ and a roasting duration of

Card 1/2

PECHKOVSKIY, V.V.; AMIROVA, S.A.; KAMEKO, G.F.; POLOTNYANSHCHIKOVA, M.I.

Effect of granulation on the oxidizing roasting of vanadium slag.
Izv. vys. uchob. zav.; tsvet. met. 4 no.3:88-93 '61. (MIRA 15:1)

1. Permskiy gosudarstvennyy universitet, kafedra tekhnologii
neorganicheskikh veshchestv.

(Vanadium—Metallurgy)

(Slag)

AMIROVA, S.A.; PECHKOVSKIY, V.V.; PROKHOROVA, V.G.; KOLPAKOV, L.Ye.;
BALDASHIN, S.I.

Studying the oxidation of vanadium-bearing slag in industrial conditions. Izv. vys. ucheb. zav.; tsvet. met. 5 no.6:93-97 '62. (MIRA 16:6)

1. Permskiy politekhnicheskii institut, kafedra tekhnologii neorganicheskikh veshchestv.
(Vanadium—Metallurgy) (Slag)

PECHKOVSKIY, V.V.; AMIROVA, S.A.; VOROB'YEV, N.I.

Roasting of ferrous sulfate in a fluidized bed (pilot plant testing). Izv.vys.ucheb.zav.;khim. i khim.tekh. 6 no.2:268-273 '63. (MIRA 16:9)

1. Permskiy politekhnicheskii institut, kafedra tekhnologii neorganicheskikh veshchestv.
(Iron sulfate) (Fluidization)

AMIROVA, S.A.; PECHKOVSKIY, V.V.; DERENDYAYEVA, M.P.

Drying and oxidative roasting of granular vanadium slag in a laboratory fluid-bed furnace. Izv.vys.ucheb.zav.;khim.i khim.tekh. 6 no.4:625-630 '63. (MIRA 17:2)

1. Permskiy politekhnicheskiy institut. Kafedra tekhnologii neorganicheskikh veshchestv.

AMIROVA, S.A.; PECHKOVSKIY, V.V.; TYULENEVA, G.Ye.; VARSKOY, B.N.

Investigation of the mineral constituents of oxidized vanadium
slags. Zhur. prikl. khim. 36 no.5:937-941 My '63. (MIRA 16:8)

1. Permskiy politekhnicheskii insittut.
(Vanadium ores) (Metallic oxides)

AMIROVA, S.A.; PECHKOVSKIY, V.V.; PROKHOROVA, V.G.; ZHEBELEVA, T.V.

Oxidation of manganous oxide by oxygen. Zhur. fiz. khim. 37
no.6:1328-1335 Ja '63. (MIRA 16:7)

1. Permskiy politekhnicheskii institut.
(Manganese oxides) (Oxygen)

AMIROVA, S.A.; PECHKOVSKIY, V.V.; VARSKOY, B.N.; TYULENEVA, G.Ye.

Mechanism of the oxidation of a vanadium-containing spinellide. Zhur.
fiz.khim. 37 no.7:1603-1606 J1 '63. (MIRA 17:2)

1. Permskiy politekhnicheskii institut.

AMIROVA, S.A.; PECHKOVSKIY, V.V.; KURMAYEV, R.Kh.

Recovery of vanadium from converter slags by chlorination of
the melt. Izv. vys. ucheb. zav.; tsvet. met. 6 no.4:102-109 '63.
(MIRA 16:8)

1. Permskiy politekhnicheskii institut, kafedra tekhnologii
neorganicheskikh veshchestv.
(Vanadium—Metallurgy) (Chlorination)

AMIROVA, S.A.; PECHKOVSKIY, V.V.; KURMAYEV, R.Kh.

Vanadium recovery from converter slags. TSvet. met. 36 no.12:57-60
D '63. (MIRA 17:2)

PECHKOVSKIY, V.V.; AMIROVA, S.A.; VOROB'YEV, N.I.; OSTROVSKAYA, T.V.

Thermochemical transformations of chromium and manganese chlorides.
Zhur. neorg. khim. 9 no.9:2059-2065 S '64.

(MIRA 17:11)

AMIROVA, S.A.; PECHKOVSKIY, V.V.; PROKHOROVA, V.G.; ZHEBELEVA, T.V.;
LEZHNEVA, A.A.

Oxidation of manganese-vanadium spinel by oxygen. Zhur. fiz. khim.
38 no.1:108-114 Ja'64. (MIRA 17:2)

1. Permskiy politekhnicheskii institut.

L-27267-65 EWT(m)/EPF(c)/EWA(d)/T/EMP(t)/EMP(b) Pr-4 IJP(c) JD/JG/MB

ACCESSION NR: AP4011442

S/0076/64/038/001/0108/0114

AUTHORS: Amirova, S.A. (Perm'); Pechkovskiy, V.V. (Perm'); Prokhorova, V.G. (Perm'); Zhebeleva, T.V. (Perm'); Lezhneva, A.A. (Perm')

TITLE: Oxidation of manganese-vanadium spinel by oxygen

SOURCE: Zhurnal fiz. khim. v. 38, no. 1, 1964, 108-114

TOPIC TAGS: manganese vanadium spinel, manganese vanadium spinel oxidation, spinel decomposition, manganese metavanadate, manganese pyro vanadate

ABSTRACT: The oxidative annealing of manganese-vanadium spinel was investigated from 0 to 1000C, using thermographic analysis simultaneously with x-ray, crystallooptic and chemical methods. The first stage of the oxidation is the chemisorption of oxygen on the surface of the spinel grains and the formation of a solid solution. Decomposition of the spinel at both high and low temperatures proceeds according to the following equations: $2\text{MnO} \cdot \text{V}_2\text{O}_3 + 2\text{O}_2 = \text{Mn}_2\text{V}_2\text{O}_7 + \text{V}_2\text{O}_5$; $\text{Mn}_2\text{V}_2\text{O}_7 + \text{V}_2\text{O}_5 = 2\text{Mn}(\text{VO}_3)_2$. The

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L 27267-65

ACCESSION NR: AP4011442

products are acid soluble and almost insoluble in water. The melting points of manganese metavanadate and pyrovanadate are given as 805 and 1023C respectively. Small additions of potassium chloride intensify the rate of oxidation. Orig. art. has: 2 equations, 10 figures and 1 table.

ASSOCIATION: Permskiy politekhnicheskiy institut (Perm-Polytechnical Institute)

SUBMITTED: 05Mar63

ENCL: 00

SUE CODE: mm

NR REF SOV: 005

OTHER: 004

Card 2/2

AMIROVA, S.A.; PECHKOVSKIY, V.V.; KURMAYEV, R.Kh.

Solubility of vanadium trioxide in fused sodium and potassium
chlorides. Zhur. neorg. khim. 9 no.5:1229-1231 My '64.
(MIRA 17:9)

1. Permskiy politekhnicheskii institut.

ACCESSION NR: AP4034578

S/0076/64/038/004/0916/0920

AUTHOR: Amirova, S. A. (Perm'); Pechkovskiy, V. V. (Perm'); Prokhorova, V. G. (Perm'); Ostrovskaya, T. V. (Perm'); Lezhneva, A. A. (Perm')

TITLE: Oxidation of iron-vanadium spinel by oxygen.

SOURCE: Zhurnal. fizicheskoy khimii, v. 38, no. 4, 1964, 916-920

TOPIC TAGS: iron vanadium spinel, oxidation, thermogram, iron orthovanadate containing system, vanadium pentoxide containing system, iron orthovanadate, solid, subtraction solution, vanadium hematite solution, fusion temperature, solubility, alkali additive, oxidation acceleration

ABSTRACT: This investigation of the oxidation of iron-vanadium spinel by oxygen included a study of the composition and properties of the phases formed, and the effect of small amounts of alkali additives on the oxidation process. Thermograms for the iron-vanadium spinel system, for iron orthovanadate and for the iron orthovanadate-vanadium pentoxide system were constructed. In the oxidation of the spinel the formation of a solid subtraction solution (exotherm at 236-336C, spinel crystal structure is retained but the cell parameters decreased) proceeds

Card 1/2

AMIROVA, S.A.; PECHKOVSKIY, V.V.; PROKHOROVA, V.G.; OSTROVSKAYA, T.V.;
BOBROVA, L.G. (Perm')

Oxidation of FeVCrO_4 spinel by oxygen. Zhur. fiz. khim. 38 no.12:
2862-2867 D 164. (MIRA 18:2)

1. Permskiy politekhnicheskii institut.

AMIROVA, S.A.; KURMAYEV, R. Kh.

Chemical interactions during the chlorination of vanadium tri-
oxide. Izv. vys. ucheb. zav., tsvet. met. 7 no.5:77-81 '64
(MIRA 18:1)

1. Kafedra tekhnologii neorganicheskikh veshchestv Permskogo
politeknicheskogo instituta.

AMIROVA, S.A.; TYULENEVA, G.Ye.

Investigation of the process of oxidizing roasting of Kachkanar
slag. TSvet. met. 38 no.1:70-73 Ja '65 (MIRA 18:2)

AMIROVA, S.A.; PECHKOVSKIY, V.V.; DEMIDOVA, L.A.; BOBROVA, I.T.

Oxidation of manganese-vanadium spinel in presence of sodium chloride. Izv.vys.ucheb.zav.; khim. i khim.tekh. 8 no.2:275-278 '65. (MIRA 18:8)

1. Permskiy politekhnicheskii institut, kafedra tekhnologii neorganicheskikh veshchestv.

AMIROVA, S.A.; KURMAYEV, R.Kh.; KARIMO, S.I.; SOLYAZOV, F.P.;
PALITSEV, N.A.

Industrial testing of the chlorination of vanadium containing
fused converter slag. Izv.vys.ucheb.zav.; tsvet.met. 8 no.2:
79-84 '65. (MIRA 1981)

1. Vermakiy politekhnicheskii institut i Solikamskiy magnitovyy
zavod. Submitted November 2, 1964.

AMIR'YAN, Artur Karpovich; BONDARENKO, M., red.; BAKHTIYAROV, A.,
tekhn. red.

["Fergana" Collective Farm (Akhunbabayevskiy District, Fergana
Province)]Kolkhoz "Fergana"; Akhunbabaevskii raion Ferganskoi
oblasti. Tashkent, Gos.izd-vo Uzbekskoi SSR, 1960. 27 p.
(MIRA 14:12)
(Akhunbabayevskiy District—Collective farms)

S/122/60/000/010/005/015
A161/A030

AUTHOR: Amiryan, K.A., Engineer

TITLE: Designing Pinion-Rack Mechanisms Performing Periodical Reciprocative Motion

PERIODICAL: Vestnik mashinostroyeniya, 1960, No.10, pp. 31-34

TEXT: Periodical reciprocative motion in automatic machines may be produced by pinion-rack mechanisms. The use of such a mechanism for free-piston engines is considered in the article, for obtaining rotary motion from reciprocative linear motion of the pistons. Such mechanisms consist of gear sectors and a rack in several combinations. The three design versions are calculated. One practical calculation problem is solved - a pinion-rack mechanism with given $m = 5$ mm (module); $s = 141.3$ mm (rack feed per one pinion revolution); $T = 2$ sec (time of reciprocative motion cycle). There are 3 figures. ✓

Card 1/1

S/122/60/000/001/003/018
A161/A130

AUTHOR: Amiryan, K. A., Engineer

TITLE: Intermittent gears

PERIODICAL: Vestnik mashinostroyeniya, no. 1, 1960, 16-19

TEXT: The operation of an intermittent gear pair is analyzed in view of calculation form in two Soviet manuals not fitting the form required in practical design engineering [Ref. 1: S. N. Kozhevnikov, Teoriya mekhanizmov i mashin (Theory of mechanisms and machines), 2nd ed., Kiev, Mashgiz, 1954; Ref. 2: I. I. Artobolevskiy, Theory of mechanisms and machines, 2nd ed., Moscow-Leningrad, Mashgiz, 1952]. The driven gear in the pair (having a full rim of teeth) always will turn a surplus angle (δ_z) if the sector on the driving gear has an equal number of teeth, and jamming must occur when a tooth of the driven gear stands in position B (Fig. 2) obstructing the way for the first tooth of the sector, and the rest of the $\frac{2z}{72}$ fraction is larger than the difference between the pitch angle and the addendum top width angle (θ). Jamming can be eliminated by increased center distance, or by addendum correction being calculated. A shock-preventing lever outline on intermittent gears (Fig. 3) is analyzed, and it is recommended

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Intermittent gears

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to select the γ_{p_1} and γ_{p_2} lever action angles so as to make catching begin in point k. The lever action angle formulae are

$$\gamma_{p_1} = k_1 \gamma_1 + \frac{\beta - \beta_1}{i_n}, \text{ and } \gamma_{p_2} = k_1 \gamma_1 i_n + \beta - \beta_1 \quad (15)$$

where k_1 is the number of angle pitches occupied by the levers; γ_1, γ_2 - the pitch of the two gears; β_1, β_2 - the angles corresponding the k point;

$$\sin \beta_1 = \frac{\sqrt{z_2^2 \sin^2 \alpha + 16 (z_2 + 1) \cos \alpha - z_2 \sin 2 \alpha}}{2 (z_2 + 2)} ;$$

$$\sin \beta_2 = \frac{\sqrt{z_n^2 \sin^2 \alpha + 16 (z_n + 1) \cos \alpha - z_n \sin 2 \alpha}}{2 (z_n + 2)} , \quad (16)$$

where α is the pitch angle; i_n - the ratio for full-rim gears; z_n - the teeth number of the full gear. If levers are used, the teeth number on the sector must be reduced by k_1 , and the lever outlines must be limited by the γ_{p_1} and γ_{p_2} angles. The ratios in the transition phase will then be

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Intermittent gears

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A161/A130

$$\frac{\omega_1}{\omega_2} = \frac{\overline{O_2 P_0}}{O_1 P_0} = \frac{\rho_2}{\rho_1},$$

and, since

$$\rho_1 + \rho_2 = A,$$

the angular velocity of the driven gear will be

$$\omega_2 = \omega_1 \frac{\rho_1}{A - \rho_1} \quad (17)$$

The impact could be eliminated completely if the P_0 point would coincide with the O_1 point at the start of motion, but this is not possible in normal conditions, and the impact can only be damped. It is necessary to find such lever profiles which reduce the moments from inertia $M_u = \mathcal{E}I$ at the start and end of the lever action to zero (where I and \mathcal{E} are the moment of inertia and the angular acceleration of the driven gear). It had been stated in study of some curves that such lever outlines can be used, which are producing angular acceleration following the law

$$\mathcal{E} = C \sin \left(\frac{\pi}{\gamma_{P_1}} \varphi_1 \right) \quad (18)$$

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Intermittent gears

S/122/60/000/001/003/018
A161/A130

where φ_1 is the turn angle of the driving lever in the range between 0° and φ_{p_1} .
The φ_{p_1} angle is found by the equation

$$\varphi_{p_1} = \frac{A \left[1 - \cos \left(\frac{\pi}{\gamma_{p_1}} \varphi_1 \right) \right] i_n}{2 + i_n \left[1 - \cos \left(\frac{\pi}{\gamma_{p_1}} \varphi_1 \right) \right]} \quad (21)$$

φ angle by

$$\varphi_2 = \gamma_{p_2} - \frac{\gamma_{p_1} i_n}{2\pi} \sin \left(\frac{\pi}{\gamma_{p_1}} \varphi_1 \right) \quad (22)$$

and the radius vector of the driven lever found as

$$\rho_2 = A - \rho_1 \quad (23)$$

To design the lever outline, the turn angle of the driving lever must be divided into equal parts, and the φ_1 , ρ_1 and ρ_2 values found for a series of positions using equations (21) - (23). A practical example is calculated for a gear

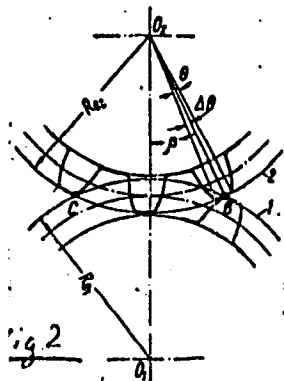
Card 4/6

Intermittent gears

S/122/60/000/001/003/018
A161/A130

mechanism working intermittently, with 2 sec rotation and 2 sec rest periods, with $n_2 = 60$ rpm; $z_2 = 20$; module = 2 mm; $A = 100$ mm; $R_{eL} = 82$ mm; $R_{e2} = 22$ mm. The calculation shows that the gears will work without jamming. It is mentioned that a mechanism calculated in this way is working satisfactorily. There are 3 figures and 2 Soviet-bloc references.

Fig. 2:



Card 5/6

AMIRYAN, SH.O.; KARAPETYAN, A.I.

Mineralogical and geochemical characteristics of the ores of
the Magradzor gold-bearing deposit. Izv. AN Arm.SSR Nauki o
zem. 17 no.2:37-48 '64. (MIRA 17:8)

1. Institut geologicheskikh nauk AN ArmSSR.

AMIRYAN, Sh.O.

Ore composition in one of the gold-ore deposits. Izv. AN Arm.
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Inst : Moscow Agricultural Academy imeni K. A. Timiryazev.
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In the last year, 60 such houses were built along the trunk line from Moscow-Kiev, Moscow-Minsk and Moscow-Novosibirsk. It is planned to build 150 more of these huts during 1946. Plans and general view are shown in illustrations.

19T81

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